

Appendix C
Plan Drawings
(Compact Disc, Portable Document Format)

REMOVAL ACTION IMPLEMENTATION PLAN FOR THUMB POND AND SUB-AREA A JUNE 2010

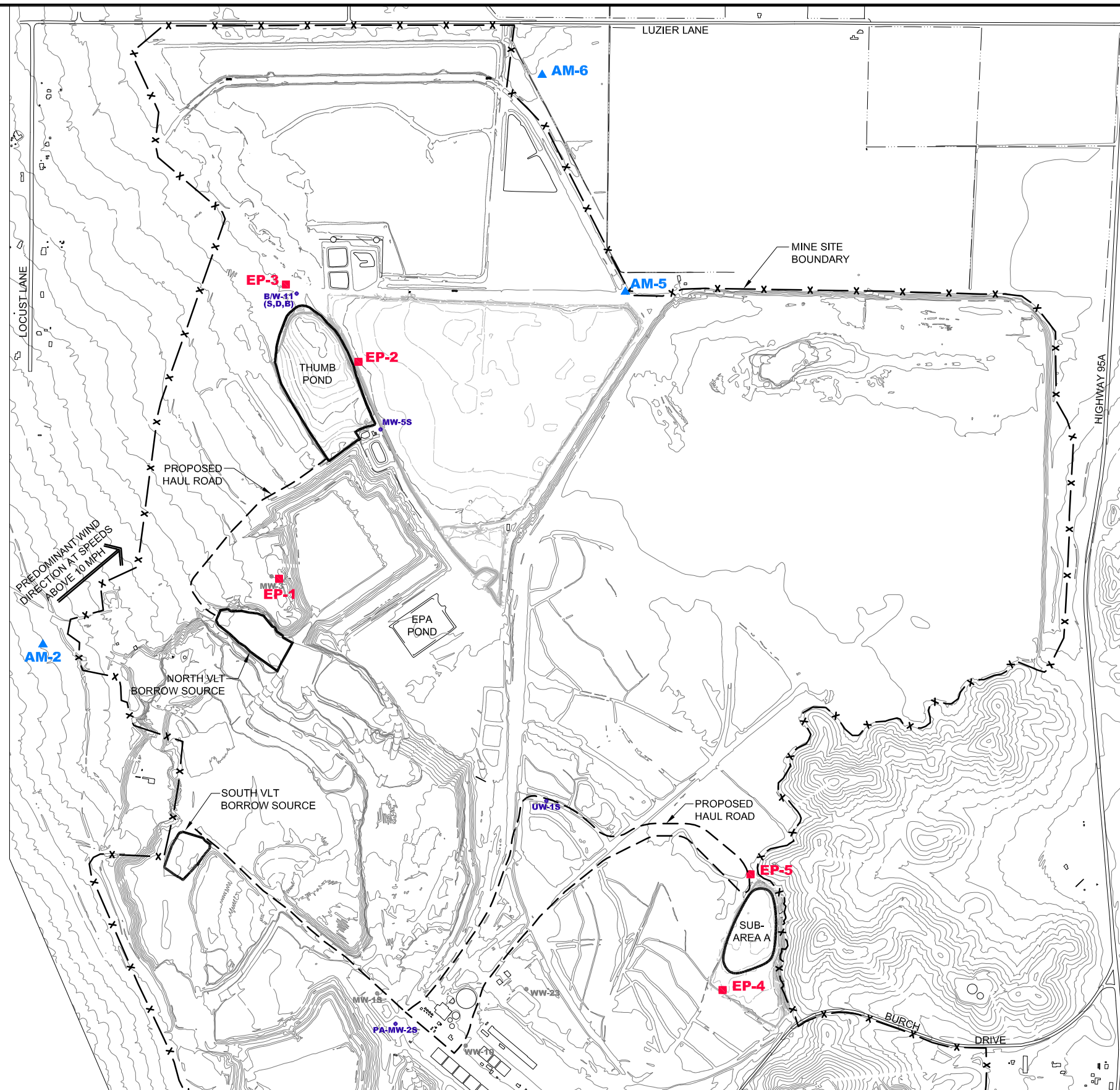






Richard A. Mattucci, P.E.
NEVADA P.E. NO. 12645
P R I N C I P A L E N G I N E E R
B R O W N A N D C A L D W E L L

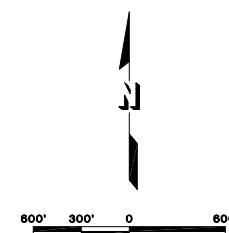
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4 CENTERPOINTE DRIVE
LA PALMA, CALIFORNIA 90623
(661) 287-3855

FINAL DESIGN FOR CONSTRUCTION



 AM-2	EXISTING AIR MONITORING STATION LOCATION (MAINTAINED BY ARC)
 EP-1	PROPOSED AIR MONITORING STATION LOCATION FOR REMOVAL ACTION (MAINTAINED BY CONTRACTOR PER TECHNICAL SPECIFICATION SECTION 01520)
 UW-1S	MONITOR WELL (WATER MONITORING WELL NETWORK)
 MW-1S	EXISTING INACTIVE WELL (MONITORING OR OTHER)



		NO.	DESCRIPTION	BY	CHK.	APPRVD	DATE
REVISIONS	1						
	2						
	3						
	4						
	5						
	6						
	7						
	8						
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**FINAL DESIGN
FOR CONSTRUCTION**

ENGINEER

PREPARED BY:

DESIGNED	RDH	5/10
DRAWN	RDH	5/10
CHECKED	RAM	5/10
APPROVED	RAM	5/10
APPROVED		
APPROVED		

PREPARED FOR:

REMOVAL ACTION IMPLEMENTATION PLAN FOR THUMB POND AND SUB-AREA A

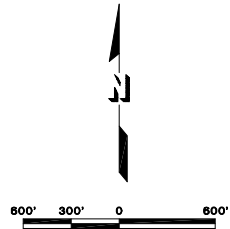
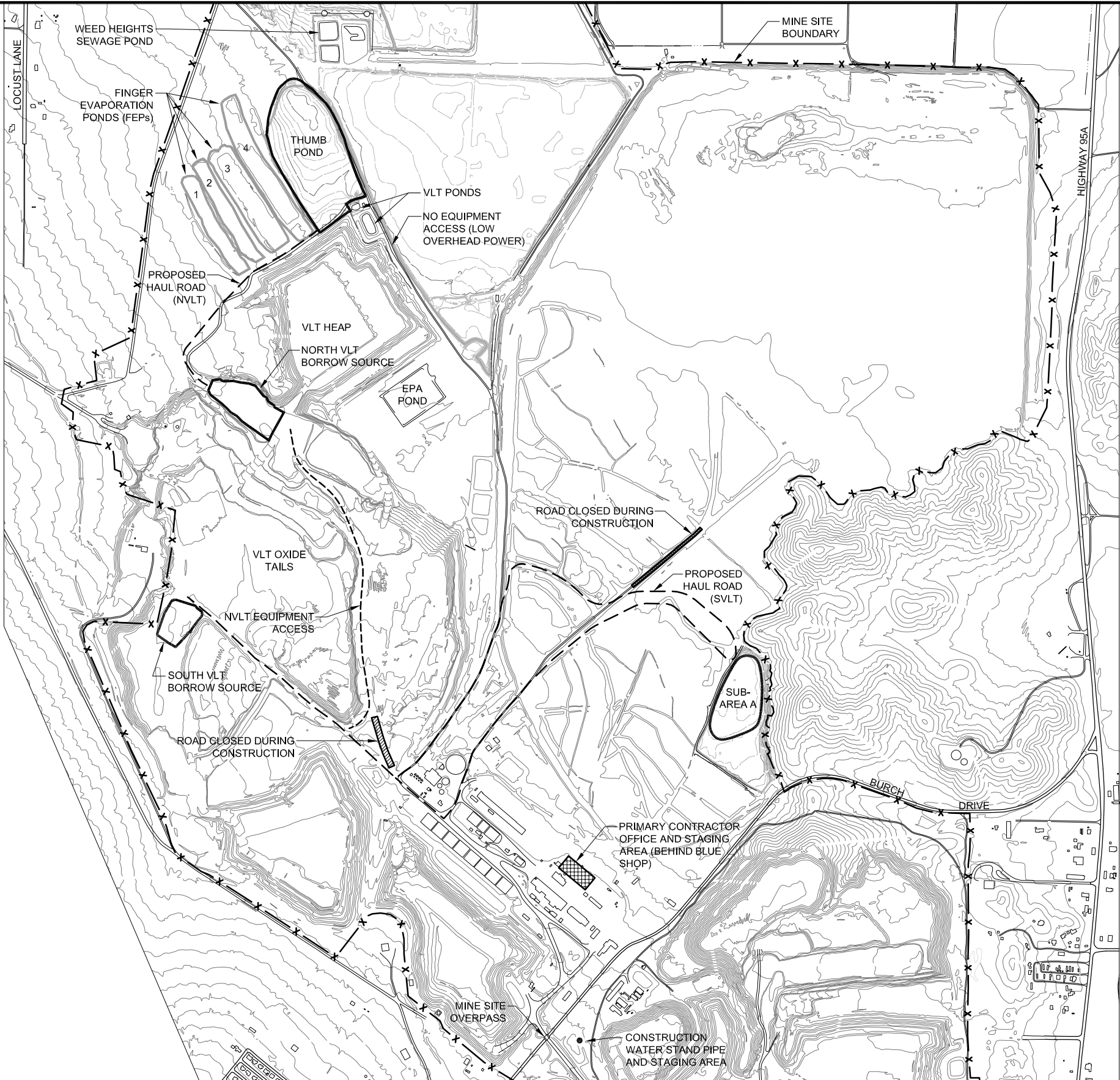
TITLE

SCALE 1" = 600' LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)

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Path: P:\Arco-Yerrington\Evaporation Pond-Sulfide Tailings\136742 - Year 2009 Files\CAD\C3D\Thumb Pond_Sub-Area A\100% Design\2-Sheets\C-C
Filename: 138555-C-001
Plot date: Jun 16, 2010-06:53:03am
CAD User: rhunt



- NOTES:
1. CONTOURS FROM AERIAL TOPOGRAPHY 2001, SURVEY CONTROL PROVIDED ON DWG C-010.

NO.	DESCRIPTION	BY	CHK.	APPRD	DATE

**FINAL DESIGN
FOR CONSTRUCTION**

ENGINEER

PREPARED BY:		
Brown and Caldwell		
3264 GONI ROAD, SUITE 153 CARSON CITY, NEVADA 89706 PHONE: (775) 883-4118		
DESIGNED	RDH	5/10
DRAWN	RDH	5/10
CHECKED	RAM	5/10
APPROVED	RAM	5/10
APPROVED		
APPROVED		

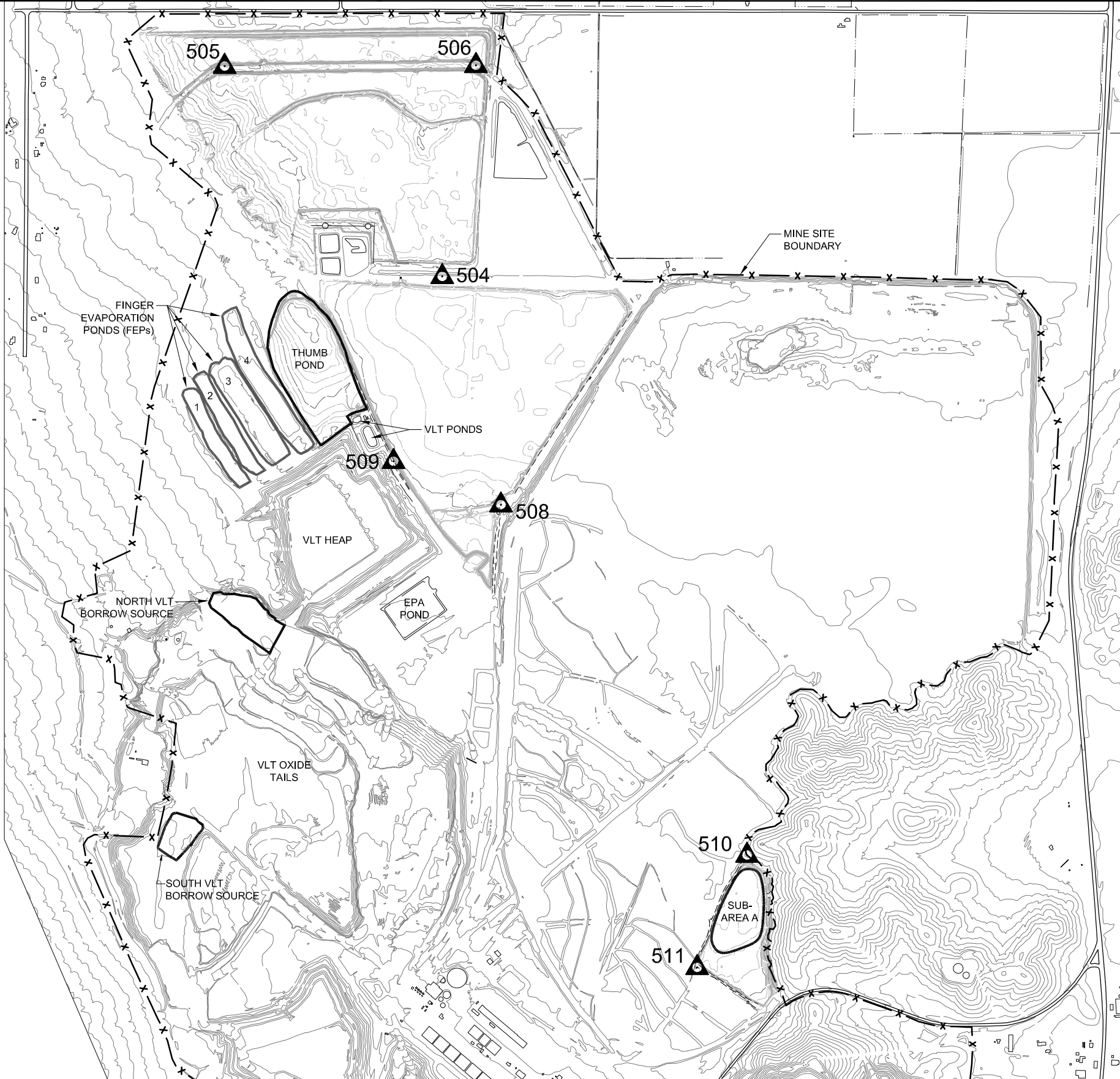
PREPARED FOR:

**Atlantic Richfield
Company**

REMOVAL ACTION IMPLEMENTATION PLAN
FOR THUMB POND AND SUB-AREA A

TITLE		REVISION	
CIVIL			
CIVIL SITE PLAN			
SCALE 1" = 600' LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)			
DRAWING NUMBER		SHEET NUMBER	
138555-C-001		4 OF 27	

Path: P:\Arco-Yerrington\Evaporation Pond-Sulfide Tailings\136742 - Year 2009 Files\CAD\C3D\Thumb Pond-Sub-Area A\100% Design\2-Sheets\C-C
Filename: 138555-C-010
Plot date: Jun 16, 2010-06:55:49am
CAD User: rhunt



SUMMARY OF SURVEY CONTROL POINTS				
CONTROL POINT	GRID COORDINATES		TOP OF MONUMENT ELEVATION (FT.)	MONUMENT DESCRIPTION
	NORTHING	EASTING		
504	1554644.36	323500.87	4364.46	5/8" REBAR W/ RED PLASTIC CAP LABELED "TRI STATE CONTROL"
505	1556790.14	321279.87	4368.35	5/8" REBAR W/ RED PLASTIC CAP LABELED "TRI STATE CONTROL"
506	1556798.44	323844.81	4367.83	5/8" REBAR W/ RED PLASTIC CAP LABELED "TRI STATE CONTROL"
508	1552313.75	324099.77	4369.52	5/8" REBAR W/ RED PLASTIC CAP LABELED "TRI STATE CONTROL"
509	1552757.64	323003.78	4382.55	5/8" REBAR W/ RED PLASTIC CAP LABELED "TRI STATE CONTROL"
510	1548740.06	326611.67	4442.32	REBAR AND CAP
511	1547593.81	326102.33	4439.93	REBAR AND CAP

BASIS OF BEARINGS:

NAD27 - Grid North (from Lumos Engineering)
All coordinates are GRID coordinates.

BASIS OF ELEVATION:

NGVD29
NGS Benchmark K320 Elevation = 4417.05' (NGVD29)
and E320 Elevation = 4332.69' (NGVD29)

ALL SURVEY INFORMATION PROVIDED
BY TRI STATE SURVEYING LTD.
425 EAST LONG STREET
CARSON CITY, NV. 89706
PHONE: (775) 887-9911

SURVEYED AREA:

LINED EVAPORATION POND:
UNLINED EVAPORATION POND:
THUMB POND:
SUB-AREA A:
SOUTH VLT HAUL ROAD:

SURVEY DATE:

FEBRUARY 4,5,11,12 & 17, 2009
APRIL 14, 15 & 16, 2009
JUNE 29 & 30, 2009
SEPTEMBER 23, 2009
MAY 11, 2010

NOTES:

- ALL ADDITIONAL SITE TOPOGRAPHY NOT LISTED ABOVE BASED ON AERIAL PHOTOGRAPHY DATED OCTOBER 3, 2001 BY THE AERO-DATA CORPORATION.
- AERIAL PHOTOGRAPH PROJECTION IS NEVADA STATE PLANE, WEST ZONE 1927 NORTH AMERICAN DATUM (FEET).

NO.	DESCRIPTION	BY	CHK.	APPRVD	DATE

**FINAL DESIGN
FOR CONSTRUCTION**

ENGINEER

PREPARED BY:

Brown and Caldwell

3264 GONI ROAD, SUITE 153
CARSON CITY, NEVADA 89706
PHONE: (775) 883-4118

DESIGNED	RDH	5/10
DRAWN	RDH	5/10
CHECKED	RAM	5/10
APPROVED	RAM	5/10
APPROVED		
APPROVED		

PREPARED FOR:

**Atlantic Richfield
Company**

**REMOVAL ACTION IMPLEMENTATION PLAN
FOR THUMB POND AND SUB-AREA A**

TITLE

CIVIL

SURVEY CONTROL BASEMAP

SCALE 1" = 600' LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)		REVISION
DRAWING NUMBER	SHEET NUMBER	
138555-C-010	5 OF 27	



REVISIONS Path: P:\Arco-Termington Lev	NO.	DESCRIPTION	BY	CHK.	APPRVD	DATE

**FINAL DESIGN
FOR CONSTRUCTION**

ENGINEER

PREPARED BY:

Brown AND Caldwell

3264 GONI ROAD, SUITE 153
CARSON CITY, NEVADA 89706
PHONE: (775) 883-4118

DESIGNED	RDH	5/10
DRAWN	RDH	5/10
CHECKED	RAM	5/10
APPROVED	RAM	5/10
APPROVED		
APPROVED		

PREPARED FOR:

**Atlantic Richfield
Company**

REMOVAL ACTION IMPLEMENTATION PLAN
FOR THUMB POND AND SUB-AREA A

<p>TITLE</p> <p>CIVIL</p> <p>THUMB POND TOPOGRAPHIC SURVEY</p>		<p>REVISION</p> <div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div>
<p>SCALE 1" = 100' LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)</p> <p>DRAWING NUMBER 138555-C-011</p>	<p>SHEET NUMBER 6 OF 27</p>	

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FINAL DESIGN FOR CONSTRUCTION

ENGINEER

PREPARED BY:

Brown AND Caldwell

3264 GONI ROAD, SUITE 153
CARSON CITY, NEVADA 89706

DESIGNED	RDH	5/10
DRAWN	RDH	5/10
CHECKED	RAM	5/10
APPROVED	RAM	5/10
APPROVED		
APPROVED		

PREPARED FOR:

Atlantic Richfield Company

REMOVAL ACTION IMPLEMENTATION PLAN FOR THUMB POND AND SUB-AREA A

TITLE

CIVIL

SUB-AREA A TOPOGRAPHIC SURVEY

SCALE 1" = 60'

LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)

DRAWING NUMBER

SHEET NUMBER

138555-C-012

7 OF 27



Path: P:\Arco-Yerington\Evaporation Pond-Sulfide Tailings\136742 - Year 2009 Files\CAD\CAD\C3D\Thumb Pond_Sub-Area A\100% Design\2-Sheets\C-C
File name: 136555-C-C-020-C3D Plot date: Jun 08, 2010-11:58:13am CAD User: rhunt

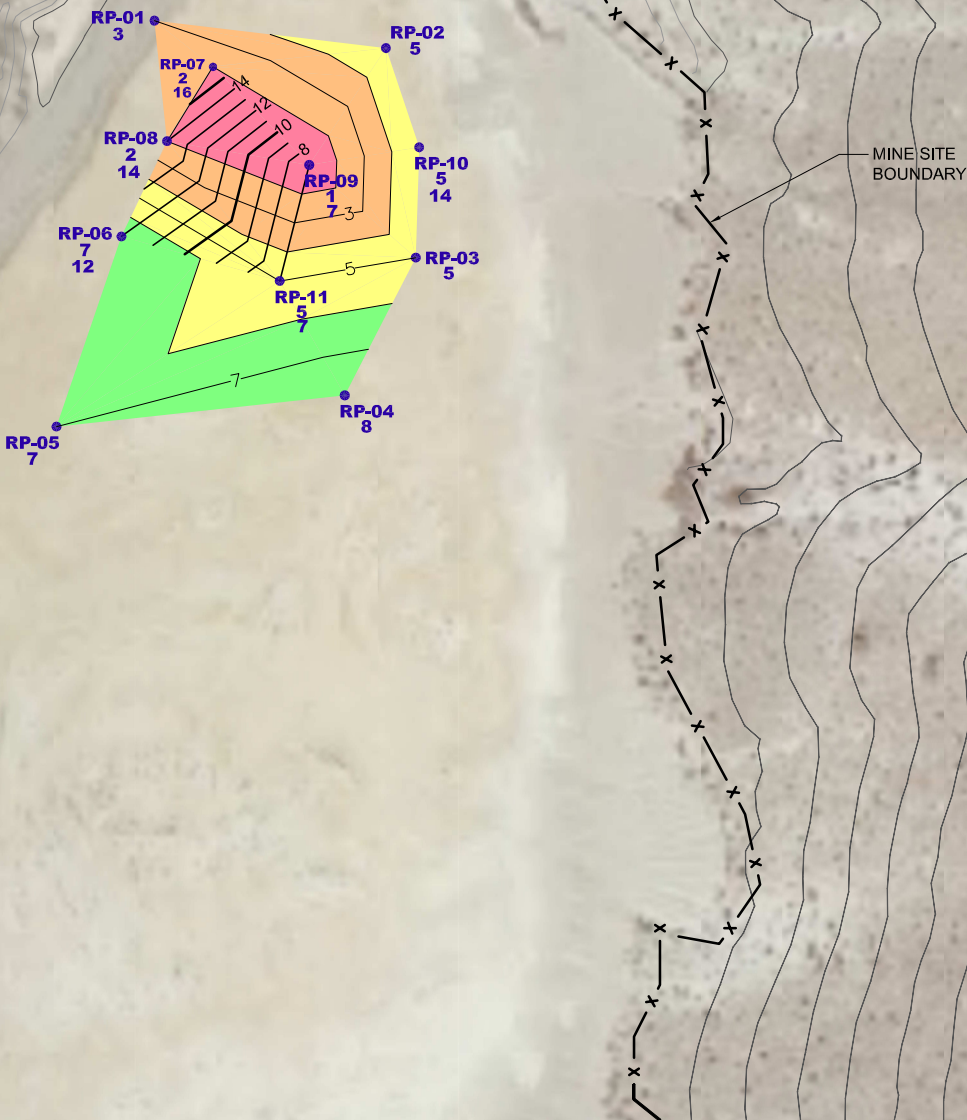
TEST RESULTS BASIS:

1. SUMMARY OF SITE SAMPLING AND MATERIALS TESTING - YERINGTON MINE SITE, YERINGTON, NV. BLACK EAGLE CONSULTING, JUNE 2009.

2. SUPPLEMENTAL SUMMARY OF SITE SAMPLING AND MATERIALS TESTING - YERINGTON MINE SITE, YERINGTON, NV. BLACK EAGLE CONSULTING, SEPTEMBER 2009.

DEPTH:

3. TAILINGS DEPTH - BROWN AND CALDWELL, FEBRUARY 2009.



EXPLANATION	
	SHEAR VANE SAMPLE LOCATION
RP-04	SHEAR STRENGTH (psi)
8	DEPTH (INCHES)
14	
COLOR	RANGE (PSI)
	0 - 2.00
	2.01 - 4.00
	4.01 - 6.00
	6.01 - 10.00
	10.01 - 21.00

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FINAL DESIGN
FOR CONSTRUCTION

ENGINEER

PREPARED BY:

Brown and Caldwell

3264 GONI ROAD, SUITE 153
CARSON CITY, NEVADA 89706
PHONE: (775) 883-4118

DESIGNED	RDH	5/10
DRAWN	RDH	5/10
CHECKED	RAM	5/10
APPROVED	RAM	5/10
APPROVED		
APPROVED		

PREPARED FOR:

Atlantic Richfield Company

REMOVAL ACTION IMPLEMENTATION PLAN
FOR THUMB POND AND SUB-AREA A

TITLE

CIVIL

SUB-AREA A

SHEAR VANE AND THICKNESS RESULTS

SCALE 1" = 60' LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)

DRAWING NUMBER **136742-C-020** SHEET NUMBER **8 OF 27**

REVISION

Path: P:\Arco-Yerrington\Evaporation Pond-Sulfide Tailings\136742 - Year 2009 Files\CAD\C3D\Thumb Pond_Sub-Area A\100% Design\2-Sheets\C-C
Filename: 138555-C-030-C3D
Plot date: Jun 08, 2010-02:38:44pm
CAD User: rhunt



- NOTES:
1. PLAN SHOWN IS FOR APPROXIMATELY 41,400 BANK CUBIC YARDS. CONTRACTOR TO FIELD ADJUST +/- 0.5 FEET FOR SHRINK/SWELL.
 2. CONTRACTOR MAY ADJUST PLAN IN WRITING TO ACCOMODATE CHANGING VOLUME REQUIREMENTS. WRITTEN PLAN REQUIRED TO SHOW:
 - a. REVISED CUT SLOPES WITH BENCHING (3:1 AVG. SLOPE).
 - b. REVISED ALIGNMENT NOT TO EXCEED 10% GRADE.
 - c. REVISED BMP PLAN.
 - d. REVISION TO DUST MITIGATION PLAN.
 3. ACCESS ROAD SHALL MEET REQUIREMENTS OF MSHA 30.CFR 56.9300.
 4. EXCAVATIONS SHALL BE IN COMPLIANCE WITH OSHA 29 CFR1926 SUBPART P.
 5. CONTRACTOR TO SUBMIT STORMWATER POLLUTION PREVENTION PLAN TO EPA. PARTIAL LIST OF BMP's SHOWN ON DRAWING C-400.

NO.	DESCRIPTION	BY	CHK.	APPRVD	DATE
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**FINAL DESIGN
FOR CONSTRUCTION**

ENGINEER

PREPARED BY:

Brown and Caldwell

3264 GONI ROAD, SUITE 153
CARSON CITY, NEVADA 89706
PHONE: (775) 883-4118

DESIGNED	RDH	5/10
DRAWN	RDH	5/10
CHECKED	RAM	5/10
APPROVED	RAM	5/10
APPROVED		
APPROVED		

PREPARED FOR:

**Atlantic Richfield
Company**

REMOVAL ACTION IMPLEMENTATION PLAN
FOR THUMB POND AND SUB-AREA A

TITLE

CIVIL

**NORTH VLT BORROW SOURCE
GRADING PLAN**

SCALE 1" = 60'

LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)

DRAWING NUMBER

138555-C-030

SHEET NUMBER

9 OF 27

REVISION

△

Path: F:\Arco-Yerrington\Evaporation Pond-Sulfide Tailings\136742 - Year 2009 Files\CAD\C3D\Thumb Pond_Sub-Area A\100% Design\2-Sheets\C-C
Filename: 138555-C-040-C3D
Plot date: Jun 08, 2010-05:20:45pm
CAD User: rhunt



- NOTES:
1. PLAN SHOWN IS FOR APPROXIMATELY 33,500 BANK CUBIC YARDS. CONTRACTOR TO FIELD ADJUST +/- 0.5 FEET FOR SHRINK/SWELL.
 2. CONTRACTOR MAY ADJUST PLAN IN WRITING TO ACCOMODATE CHANGING VOLUME REQUIREMENTS. WRITTEN PLAN REQUIRED TO SHOW:
 - a. REVISED CUT SLOPES WITH BENCHING (3:1 AVG. SLOPE).
 - b. REVISED ALIGNMENT NOT TO EXCEED 10% GRADE.
 - c. REVISED BMP PLAN.
 - d. REVISION TO DUST MITIGATION PLAN.
 3. ACCESS ROAD SHALL MEET REQUIREMENTS OF MSHA 30.CFR 56.9300.
 4. EXCAVATIONS SHALL BE IN COMPLIANCE WITH OSHA 29 CFR1926 SUBPART P.
 5. CONTRACTOR TO SUBMIT STORMWATER POLLUTION PREVENTION PLAN TO EPA. PARTIAL LIST OF BMP's SHOWN ON DRAWING C-400.

NO.	DESCRIPTION	BY	CHK.	APPRVD	DATE

FINAL DESIGN
FOR CONSTRUCTION

ENGINEER

PREPARED BY:
Brown and Caldwell
3264 GONI ROAD, SUITE 153
CARSON CITY, NEVADA 89706
PHONE: (775) 883-4118

DESIGNED	RDH	5/10
DRAWN	RDH	5/10
CHECKED	RAM	5/10
APPROVED	RAM	5/10
APPROVED		
APPROVED		

PREPARED FOR:
Atlantic Richfield Company

REMOVAL ACTION IMPLEMENTATION PLAN
FOR THUMB POND AND SUB-AREA A

TITLE
CIVIL
SOUTH VLT BORROW SOURCE GRADING PLAN

SCALE 1" = 40'
DRAWING NUMBER
138555-C-040

LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)
SHEET NUMBER
11 OF 27

REVISION

Path: P:\Arco-Yerrington\Evaporation Pond-Sulfide Tailings\136742 - Year 2009 Files\CAD\C3D\Thumb Pond_Sub-Area A\100% Design\2-Sheets\C-C
CAD User: rhunt
Plot date: Jun 08, 2010-03:13:49pm
Filename: 138555-C-041-C3D

- NOTES:
1. MINE SITE SPEED LIMIT 25 MPH.

2. IMPLEMENT APPROVED TRAFFIC MANAGEMENT PLAN PRIOR TO ACCESSING SITE WORK AREAS.

3. DUST MITIGATION TO BE IMPLEMENTED DURING ALL PROJECT WORK.

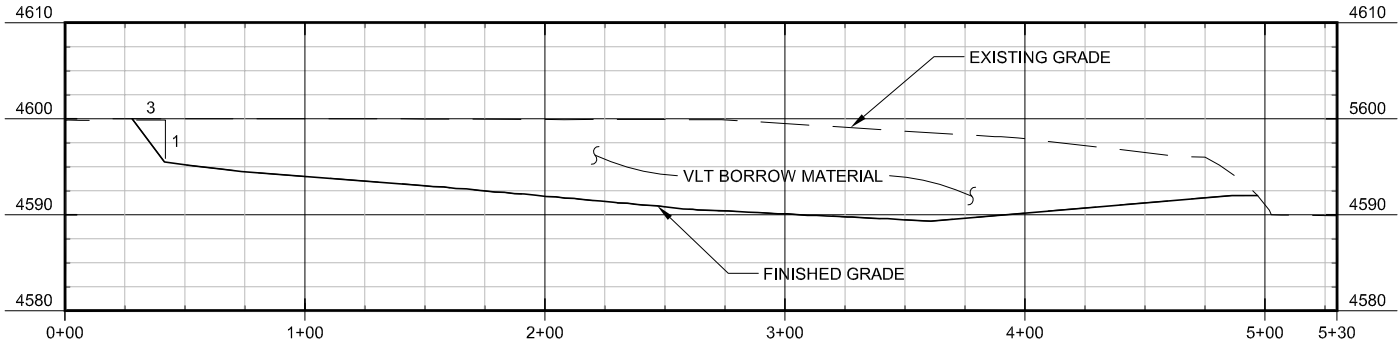
4. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF SIGNIFICANT DIFFERENCES IN PLAN PRIOR TO EXECUTING WORK.

5. CONTRACTOR TO LIMIT EQUIPMENT RUTTING IN SOFT SEDIMENTS TO LESS THAN 1-INCH. RUTTING GREATER THAN 1-INCH REQUIRES SOIL OR GEOGRID STABILIZATION TO MITIGATE RUTTING CAUSED BY PROPOSED CONSTRUCTION EQUIPMENT.

6. ALL HAUL ROADS TO BE IN COMPLIANCE WITH MSHA 30 CFR 56.9300.

7. EXCAVATIONS SHALL BE IN COMPLIANCE WITH ACCEPTED HSSE PLAN AND OSHA 29 CFR 1926 SUBPART P.

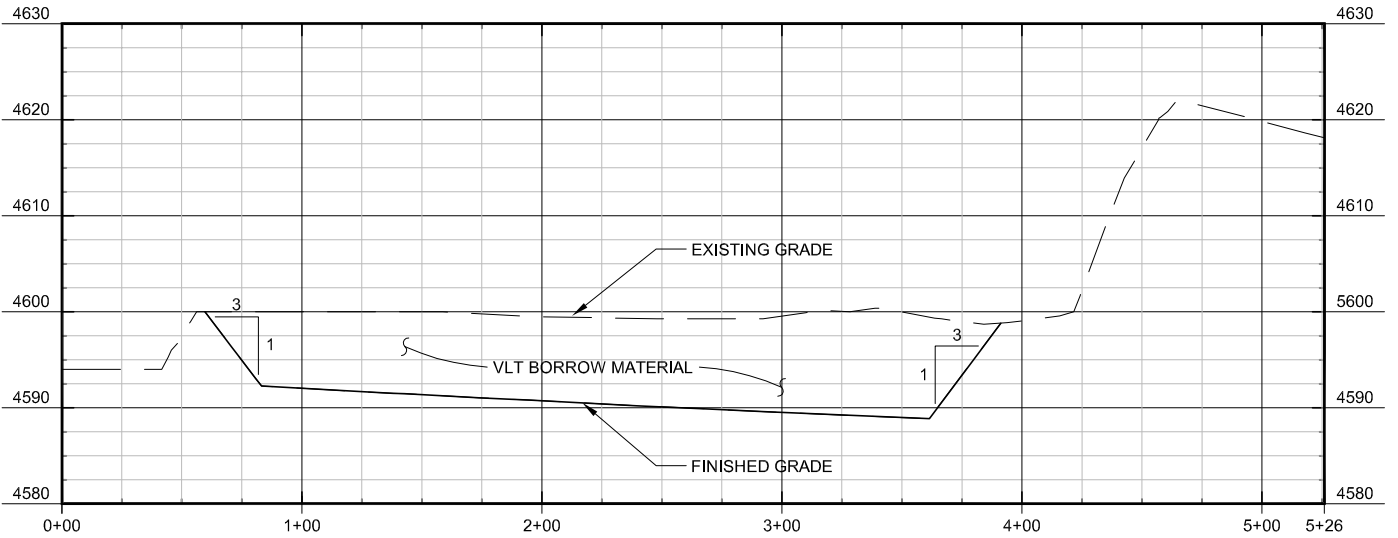
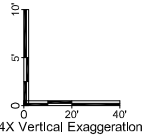
8. CONTRACTOR TO SUBMIT STORMWATER POLLUTION PREVENTION PLAN TO EPA. PARTIAL LIST OF BMP's SHOWN ON DRAWING C-400.



SOUTH VLT BORROW SOURCE

SECTION 1
C-040

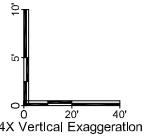
HORIZONTAL SCALE: 1" = 40'



SOUTH VLT BORROW SOURCE

SECTION 2
C-040

HORIZONTAL SCALE: 1" = 40'



Call
before you
Dig.
1-800-227-2600
UNDERGROUND SERVICE (USA)

NO.	DESCRIPTION	BY	CHK.	APPRVD	DATE

FINAL DESIGN
FOR CONSTRUCTION

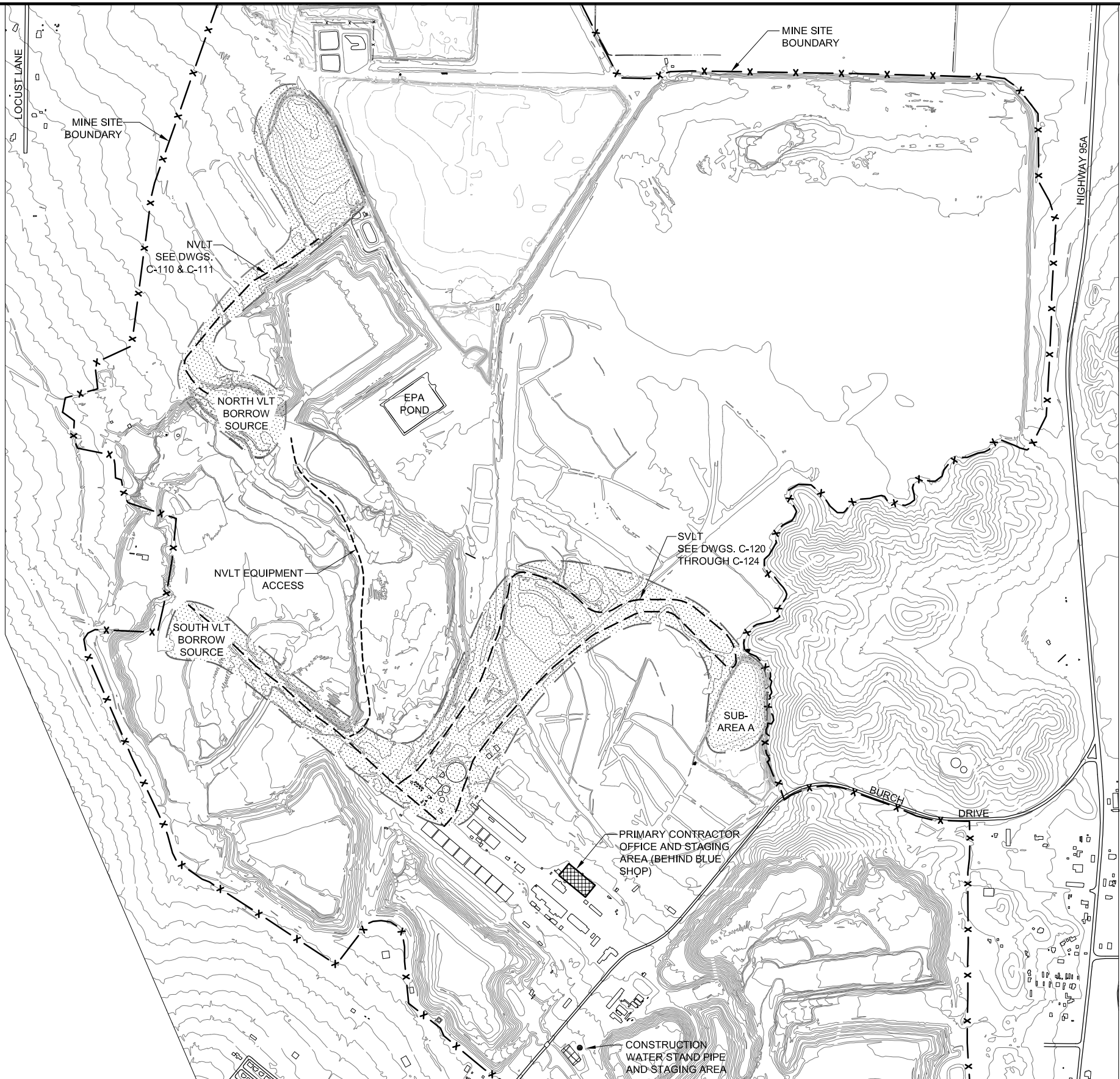
ENGINEER

PREPARED BY:		
Brown AND Caldwell		
3264 GONI ROAD, SUITE 153 CARSON CITY, NEVADA 89706 PHONE: (775) 883-4118		
DESIGNED	RDH	5/10
DRAWN	RDH	5/10
CHECKED	RAM	5/10
APPROVED	RAM	5/10
APPROVED		
APPROVED		

PREPARED FOR:	
Atlantic Richfield Company	
REMOVAL ACTION IMPLEMENTATION PLAN FOR THUMB POND AND SUB-AREA A	

TITLE		
CIVIL		
SOUTH VLT BORROW SOURCE SECTIONS		
SCALE AS SHOWN	LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)	REVISION
DRAWING NUMBER	SHEET NUMBER	
138555-C-041	12 OF 27	

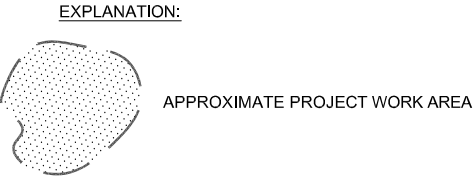
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Filename: 138555-C-100
Plot date: Jun 16, 2010-10:14:53am
CAD User: rhunt



ALIGNMENT INDEX:

NVLT - 2-WAY ROAD FROM NORTH VLT BORROW SOURCE TO THUMB POND (APPROX. 2,310').

SVLT - SOUTH VLT BORROW SOURCE HAUL ROAD TO SUB-AREA A (APPROX. 13,061')



NOTE:
ARC AND ITS CONTRACTORS RESERVE THE RIGHT TO MODIFY CONSTRUCTION HAUL ROAD CONFIGURATIONS AS NECESSARY DUE TO FIELD CONDITIONS, MSHA REQUIREMENTS OR FOR HAUL ROAD EFFICIENCIES.

NO.	DESCRIPTION	BY	CHK.	APPRD.	DATE

**FINAL DESIGN
FOR CONSTRUCTION**

ENGINEER

PREPARED BY:

Brown and Caldwell

3264 GONI ROAD, SUITE 153
CARSON CITY, NEVADA 89706
PHONE: (775) 883-4118

DESIGNED	RDH	5/10
DRAWN	RDH	5/10
CHECKED	RAM	5/10
APPROVED	RAM	5/10
APPROVED		
APPROVED		

PREPARED FOR:

**Atlantic Richfield
Company**

REMOVAL ACTION IMPLEMENTATION PLAN
FOR THUMB POND AND SUB-AREA A

TITLE	
CIVIL	
HAUL ROAD ALIGNMENT INDEX	
SCALE 1" = 600'	LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)
DRAWING NUMBER	SHEET NUMBER
138555-C-100	13 OF 27
REVISION	

SUMMARY OF ESTIMATED QUANTITIES (ALIGNMENTS)			
ALIGNMENT	CUT (Cu. Yds.)	FILL (Cu. Yds.)	NET (Cu. Yds.)
NVLT	3526	722	2804 (CUT)
SVLT	23,942	10,469	13,473 (CUT)
		TOTAL:	16,277 (CUT)

SUMMARY OF ESTIMATED QUANTITIES (EVAPORATION PONDS)			
POND	CUT (Cu. Yds.)	FILL (Cu. Yds.)	NET (Cu. Yds.)
THUMB	1010	44,976	43,966 (FILL)
SUB-AREA A	126	31,668	31,542 (FILL)
		TOTAL:	75,508 (FILL)

NOTE:
LINE (L) AND CURVE (C) LOCATIONS ARE SHOWN ON
ROAD ALIGNMENT PLAN AND PROFILE SHEETS.

NVLT LINE AND CURVE TABLES

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L1	101.51	N33° 34' 47.76"W	(320944.72,1551506.33)	(320888.58,1551590.89)
L2	561.99	N39° 12' 23.07"E	(320898.93,1551748.26)	(321254.17,1552183.73)
L3	383.10	N43° 50' 32.06"E	(321280.98,1552214.01)	(321546.34,1552490.32)
L4	315.71	N60° 40' 14.10"E	(321598.91,1552533.10)	(321874.15,1552687.75)
L5	196.21	N55° 04' 18.35"E	(321915.51,1552713.72)	(322076.38,1552826.07)
L6	205.33	N53° 40' 20.76"E	(322076.38,1552826.07)	(322241.80,1552947.70)

Curve Table: Alignments					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C1	453.67	219.29	N48° 51' 33.74"W	(321108.26,1551363.46)	(320944.72,1551506.33)
C2	130.00	169.45	N3° 45' 42.20"E	(320888.58,1551590.89)	(320898.93,1551748.26)
C3	500.00	40.46	N41° 31' 27.56"E	(321254.17,1552183.73)	(321280.98,1552214.01)
C4	200.00	68.10	N50° 51' 29.72"E	(321546.34,1552490.32)	(321598.91,1552533.10)
C5	500.00	48.86	N57° 52' 16.23"E	(321874.15,1552687.75)	(321915.51,1552713.72)

SVLT LINE AND CURVE TABLES

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L1	336.20	S50° 34' 24.40"E	(320911.17,1549198.32)	(321170.86,1548984.80)
L2	593.44	S46° 15' 08.57"E	(321170.86,1548984.80)	(321599.55,1548574.45)
L3	329.50	S53° 16' 22.46"E	(321599.55,1548574.45)	(321863.64,1548377.41)
L4	290.49	S47° 17' 17.46"E	(321863.64,1548377.41)	(322077.09,1548180.37)
L5	198.90	S49° 48' 42.20"E	(322077.09,1548180.37)	(322229.03,1548052.02)
L6	151.58	S54° 14' 26.68"E	(322229.03,1548052.02)	(322352.03,1547963.44)
L7	99.90	S53° 33' 27.91"E	(322352.03,1547963.44)	(322432.40,1547904.10)
L8	822.03	S47° 23' 57.12"E	(322432.40,1547904.10)	(323037.48,1547347.68)
L9	91.51	N52° 40' 22.72"E	(323037.48,1547347.68)	(323110.25,1547403.17)
L10	127.04	N55° 05' 34.67"E	(323110.25,1547403.17)	(323214.43,1547475.87)
L11	124.85	N39° 45' 14.59"E	(323253.74,1547511.98)	(323333.58,1547607.97)
L12	72.86	N37° 44' 49.54"E	(323333.58,1547607.97)	(323378.19,1547665.58)
L13	71.46	N37° 19' 15.36"E	(323378.19,1547665.58)	(323421.51,1547722.41)
L14	94.08	N35° 39' 00.49"E	(323421.51,1547722.41)	(323476.34,1547798.85)
L15	88.89	N39° 46' 01.29"E	(323476.34,1547798.85)	(323533.21,1547867.18)
L16	95.02	N35° 44' 38.70"E	(323533.21,1547867.18)	(323588.71,1547944.30)
L17	98.88	N33° 45' 28.46"E	(323588.71,1547944.30)	(323643.66,1548026.51)
L18	113.03	N35° 30' 51.94"E	(323643.66,1548026.51)	(323709.32,1548118.52)
L19	97.62	N35° 08' 19.43"E	(323709.32,1548118.52)	(323765.51,1548198.35)
L20	77.33	N32° 52' 18.32"E	(323765.51,1548198.35)	(323807.48,1548263.29)

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L21	80.56	N30° 24' 11.13"E	(323807.48,1548263.29)	(323848.25,1548332.78)
L22	85.44	N29° 25' 19.96"E	(323848.25,1548332.78)	(323890.22,1548407.20)
L23	65.40	N24° 27' 26.03"E	(323890.22,1548407.20)	(323917.30,1548466.73)
L24	59.55	N21° 19' 47.43"E	(323917.30,1548466.73)	(323938.96,1548522.20)
L25	261.66	N19° 33' 07.85"E	(323938.96,1548522.20)	(324026.53,1548768.78)
L26	57.36	N19° 08' 10.00"E	(324026.53,1548768.78)	(324045.33,1548822.97)
L27	39.06	N25° 58' 02.78"E	(324054.47,1548844.98)	(324071.57,1548880.09)
L28	29.01	N20° 31' 11.71"E	(324153.34,1549224.52)	(324163.50,1549251.69)
L29	40.04	N7° 02' 21.45"E	(324191.46,1549365.68)	(324196.37,1549405.42)
L31	290.98	S89° 47' 23.52"E	(325568.99,1549255.86)	(325859.97,1549254.79)
L32	365.91	S50° 24' 16.77"E	(326097.60,1549168.76)	(326379.56,1548935.54)
L33	73.17	S2° 58' 50.02"E	(326512.74,1548692.38)	(326516.55,1548619.31)
L34	700.66	N44° 52' 34.36"W	(326413.28,1548574.70)	(325918.91,1549071.21)
L35	185.78	N89° 47' 23.52"W	(325777.92,1549130.09)	(325592.14,1549130.77)
L36	455.15	S63° 38' 15.88"W	(325483.14,1549106.20)	(325075.32,1548904.10)
L37	491.74	S50° 55' 49.75"W	(325028.77,1548874.19)	(324646.98,1548564.26)
L38	356.54	S45° 23' 05.48"W	(324646.98,1548564.26)	(324393.18,1548313.85)
L39	113.52	S38° 33' 11.15"W	(324393.18,1548313.85)	(324322.43,1548225.07)
L40	139.33	S42° 22' 25.96"W	(324322.43,1548225.07)	(324228.53,1548122.14)
L41	237.51	S40° 31' 19.94"W	(324228.53,1548122.14)	(324074.20,1547941.59)

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L42	103.55	S37° 44' 00.98"W	(324074.20,1547941.59)	(324010.83,1547859.70)
L43	273.60	S37° 16' 46.46"W	(324010.83,1547859.70)	(323845.11,1547642.00)
L44	106.96	S16° 37' 26.54"W	(323812.61,1547578.07)	(323782.01,1547475.59)
L45	141.87	S21° 36' 26.34"W	(323776.32,1547459.16)	(323724.07,1547327.26)
L46	111.97	S14° 27' 56.07"W	(323716.36,1547303.57)	(323688.39,1547195.15)
L47	64.27	S42° 39' 05.24"W	(323571.99,1546981.28)	(323528.44,1546934.01)
L48	642.00	N49° 52' 58.83"W	(323528.44,1546934.01)	(323037.48,1547347.68)

Curve Table: Alignments					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C1	200.00	53.54	N47° 25' 24.63"E	(323214.43,1547475.87)	(323253.74,1547511.98)
C2	200.00	23.85	N22° 33' 06.39"E	(324045.33,1548822.97)	(324054.47,1548844.98)
C3	399.20	158.08	N12° 15' 56.48"E	(324071.57,1548880.09)	(324104.94,1549033.55)
C4	678.30	197.71	N14° 13' 18.23"E	(324104.94,1549033.55)	(324153.34,1549224.52)
C5	500.00	117.64	N13° 46' 46.58"E	(324163.50,1549251.69)	(324191.46,1549365.68)
C6	134.25	214.24	N47° 47' 43.88"E	(324196.37,1549405.42)	(324338.76,1549534.55)
C7	1074.80	728.44	S61° 33' 18.47"E	(324338.76,1549534.55)	(324967.07,1549194.19)
C8	250.00	343.88	S85° 10' 43.15"E	(324967.07,1549194.19)	(325283.35,1549167.51)
C9	500.00	303.64	N72° 48' 46.91"E	(325283.35,1549167.51)	(325568.99,1549255.86)
C10	375.00	257.78	S70° 05' 50.15"E	(325859.97,1549254.79)	(326097.60,1549168.76)
C11	375.00	283.98	S28° 42' 36.43"E	(326379.56,1548935.54)	(326512.74,1548692.38)
*C12	60.00	145.81	S66° 38' 15.75"W	(326516.55,1548619.31)	(326413.28,1548574.70)
C13	200.00	156.78	N67° 19' 58.94"W	(325918.91,1549071.21)	(325777.92,1549130.09)
C14	250.00	112.69	S77° 17' 48.76"W	(325592.14,1549130.77)	(325483.14,1549106.20)
C15	250.00	55.45	S57° 17' 02.81"W	(325075.32,1548904.10)	(325028.77,1548874.19)
C16	200.00	72.10	S26° 57' 06.50"W	(323845.11,1547642.00)	(323812.61,1547578.07)
C17	200.00	17.39	S19° 06' 56.44"W	(323782.01,1547475.59)	(323776.32,1547459.16)
C18	200.00	24.93	S18° 02' 11.20"W	(323724.07,1547327.26)	(323716.36,1547303.57)
C19	500.00	245.97	S28° 33' 30.66"W	(323688.39,1547195.15)	(323571.99,1546981.28)

* SUB-AREA A STAGING AREA EXEMPT FROM CURVE EMBANKMENT

[illegible]

FINAL DESIGN FOR CONSTRUCTION

ENGINEER

PREPARED BY:

Brown AND Caldwell


3264 GONI ROAD, SUITE 153
CARSON CITY, NEVADA 89706
PHONE: (775) 883-4118

DESIGNED	RDH	5/10
DRAWN	RDH	5/10
CHECKED	RAM	5/10
APPROVED	RAM	5/10
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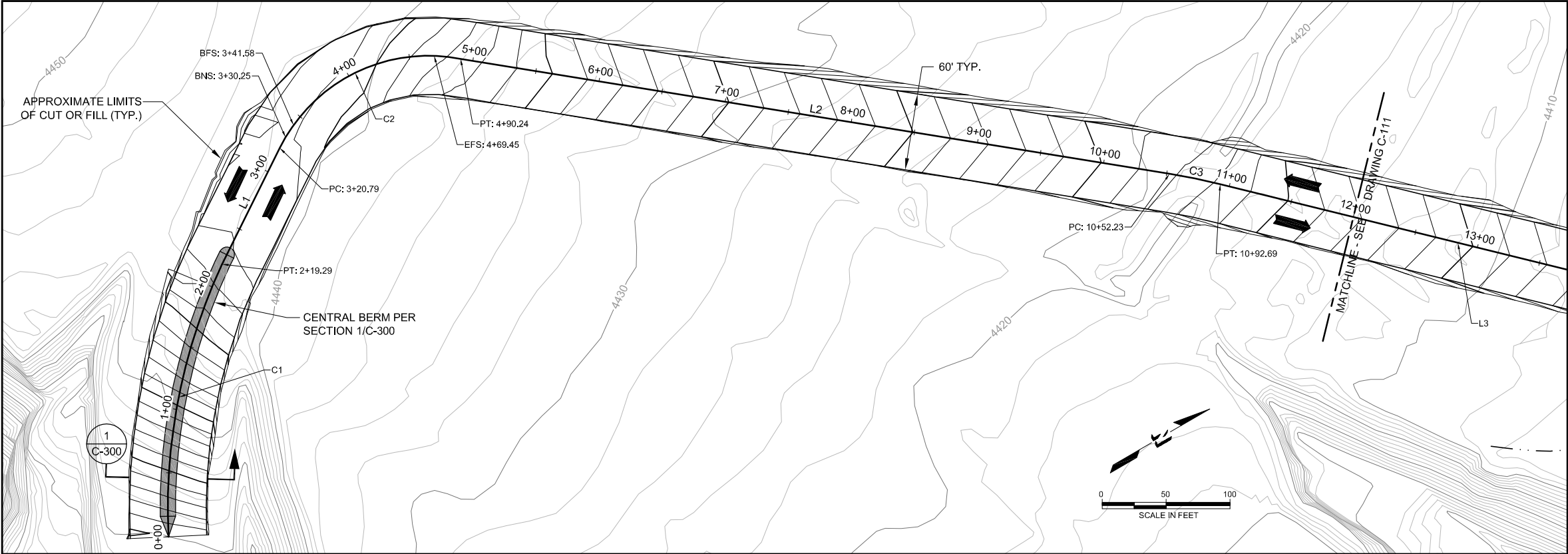
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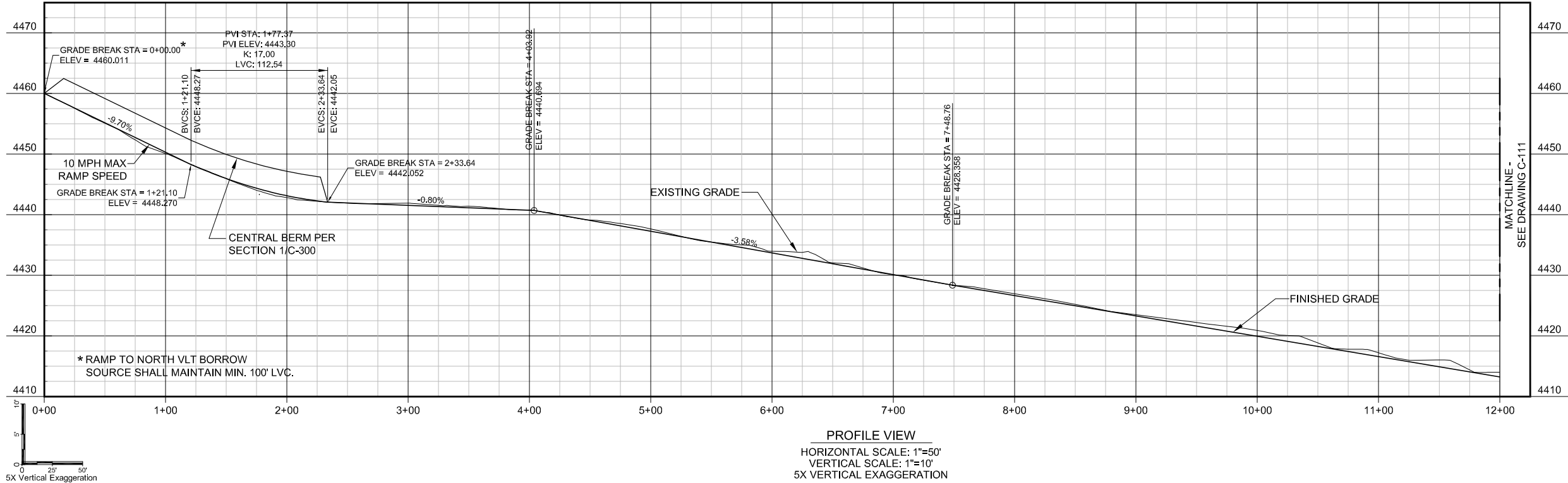
REMOVAL ACTION IMPLEMENTATION PLAN FOR THUMB POND AND SUB-AREA A

TITLE			CIVIL		
<p align="center">LINE AND CURVE TABLES, CUT AND FILL QUANTITY TABLES AND HAUL ROAD DESIGN SUMMARY</p>					
SCALE NO SCALE		<div style="border-top: 1px solid black; border-bottom: 1px solid black; padding: 2px;"> LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY) </div>			REVISION
DRAWING NUMBER		SHEET NUMBER			
138555-C-101		14 OF 27			

Path: P:\Arco-Yerrington\Evaporation Pond-Sulfide Tailings\136742 - Year 2009 Files\CAD\CSD\Thumb Pond-Sub-Area A\100% Design\2-Sheets\C-C CAD User: rhunt Plot date: Jun 08, 2010-04:07:09pm Filename: 138555-C-C-110-CSD



NVLT HAUL ROAD SPEED LIMIT IS 20 MPH.



- NOTES:
1. UNLESS SPECIFIED, GENERAL MINE SITE SPEED LIMIT IS 25 MPH.
 2. IMPLEMENT APPROVED TRAFFIC MANAGEMENT PLAN PRIOR TO ACCESSING SITE WORK AREAS.
 3. DUST MITIGATION TO BE IMPLEMENTED DURING ALL PROJECT WORK.
 4. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF SIGNIFICANT DIFFERENCES IN PLAN PRIOR TO EXECUTING WORK.
 5. CONTRACTOR TO LIMIT EQUIPMENT RUTTING IN SOFT SEDIMENTS TO LESS THAN 1-INCH. RUTTING GREATER THAN 1-INCH REQUIRES SOIL OR GEOGRID STABILIZATION TO MITIGATE RUTTING CAUSED BY PROPOSED CONSTRUCTION EQUIPMENT.
 6. ALL HAUL ROADS TO BE IN COMPLIANCE WITH MSHA 30 CFR 56.9300.
 7. EXCAVATIONS SHALL BE IN COMPLIANCE WITH ACCEPTED HSSE PLAN AND OSHA 29 CFR 1926 SUBPART P.
 8. SEE DWG. C-101 FOR LINE (L) AND CURVE (C) DATA TABLES.
 9. CURVE EMBANKMENT AND WIDENING REQUIRED FOR CURVES WITH RADIUS <160 FEET, SEE DWG. C-101.

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FINAL DESIGN
FOR CONSTRUCTION

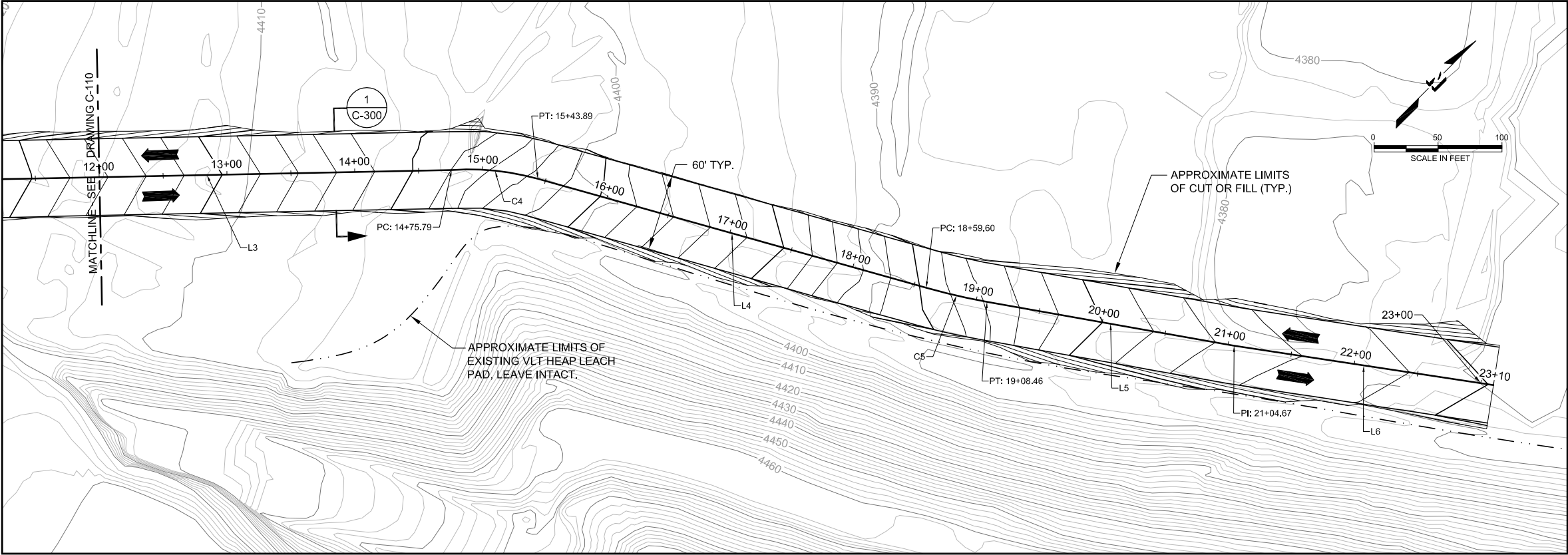
ENGINEER

PREPARED BY:		
Brown and Caldwell		
3264 GONI ROAD, SUITE 153 CARSON CITY, NEVADA 89706 PHONE: (775) 883-4118		
DESIGNED	RDH	5/10
DRAWN	RDH	5/10
CHECKED	RAM	5/10
APPROVED	RAM	5/10
APPROVED		
APPROVED		

PREPARED FOR:	
Atlantic Richfield Company	
REMOVAL ACTION IMPLEMENTATION PLAN FOR THUMB POND AND SUB-AREA A	

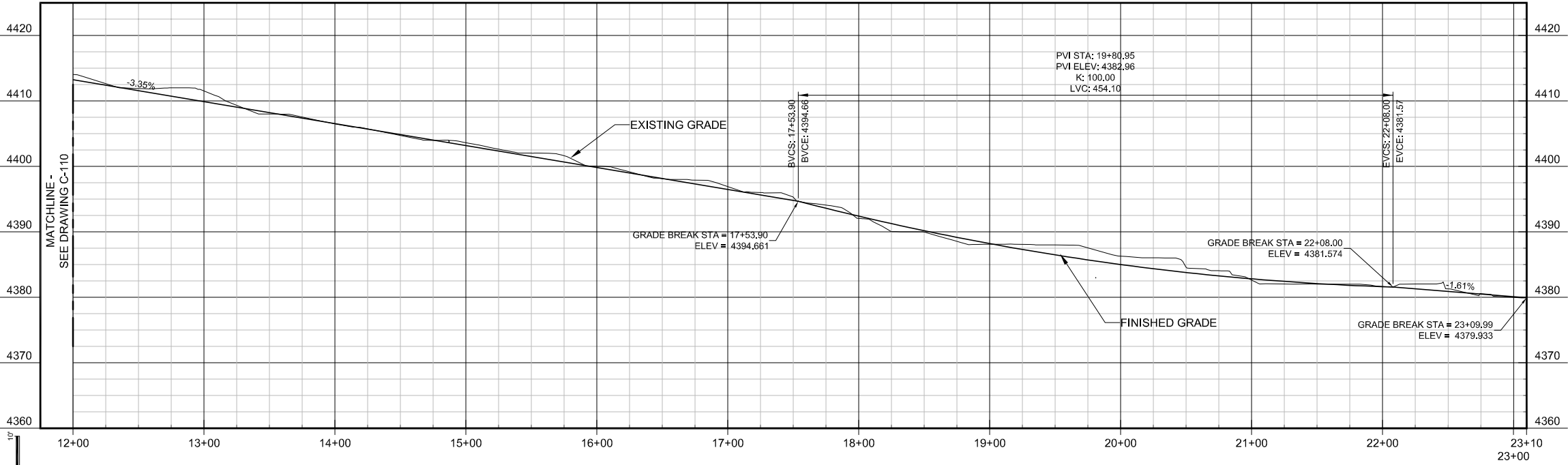
TITLE	
CIVIL ALIGNMENT 1 - SHEET 1 - PLAN AND PROFILE 2-WAY ROAD FROM NORTH VLT BORROW SOURCE TO THUMB POND (NVLT)	
SCALE AS SHOWN	LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)
DRAWING NUMBER	SHEET NUMBER
138555-C-110	15 OF 27

Path: P:\Arco-Yerrington\Evaporation Pond-Sulfide Tailings\136742 - Year 2009 Files\CAD\C3D\Thumb Pond_Sub-Area A\100% Design\2-Sheets\C-C CAD User: rhunt Plot date: Jun 08, 2010-04:19:14pm Filename: 138555-C-C-111-C3D



PLAN VIEW
SCALE: 1"=50'

NVLT HAUL ROAD SPEED LIMIT IS 20 MPH.



PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'
5X VERTICAL EXAGGERATION

NOTES:

1. UNLESS SPECIFIED, GENERAL MINE SITE SPEED LIMIT IS 25 MPH.
2. IMPLEMENT APPROVED TRAFFIC MANAGEMENT PLAN PRIOR TO ACCESSING SITE WORK AREAS.
3. DUST MITIGATION TO BE IMPLEMENTED DURING ALL PROJECT WORK.
4. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF SIGNIFICANT DIFFERENCES IN PLAN PRIOR TO EXECUTING WORK.
5. CONTRACTOR TO LIMIT EQUIPMENT RUTTING IN SOFT SEDIMENTS TO LESS THAN 1-INCH. RUTTING GREATER THAN 1-INCH REQUIRES SOIL OR GEOGRID STABILIZATION TO MITIGATE RUTTING CAUSED BY PROPOSED CONSTRUCTION EQUIPMENT.
6. ALL HAUL ROADS TO BE IN COMPLIANCE WITH MSHA 30 CFR 56.9300.
7. EXCAVATIONS SHALL BE IN COMPLIANCE WITH ACCEPTED HSSE PLAN AND OSHA 29 CFR 1926 SUBPART P.
8. SEE DWG. C-101 FOR LINE (L) AND CURVE (C) DATA TABLES.
9. CURVE EMBANKMENT AND WIDENING REQUIRED FOR CURVES WITH RADIUS <160 FEET, SEE DWG. C-101.

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FINAL DESIGN
FOR CONSTRUCTION

ENGINEER

PREPARED BY:

Brown and Caldwell

3264 GONI ROAD, SUITE 153
CARSON CITY, NEVADA 89706
PHONE: (775) 883-4118

DESIGNED	RDH	5/10
DRAWN	RDH	5/10
CHECKED	RAM	5/10
APPROVED	RAM	5/10
APPROVED		
APPROVED		

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**Atlantic Richfield
Company**

REMOVAL ACTION IMPLEMENTATION PLAN
FOR THUMB POND AND SUB-AREA A

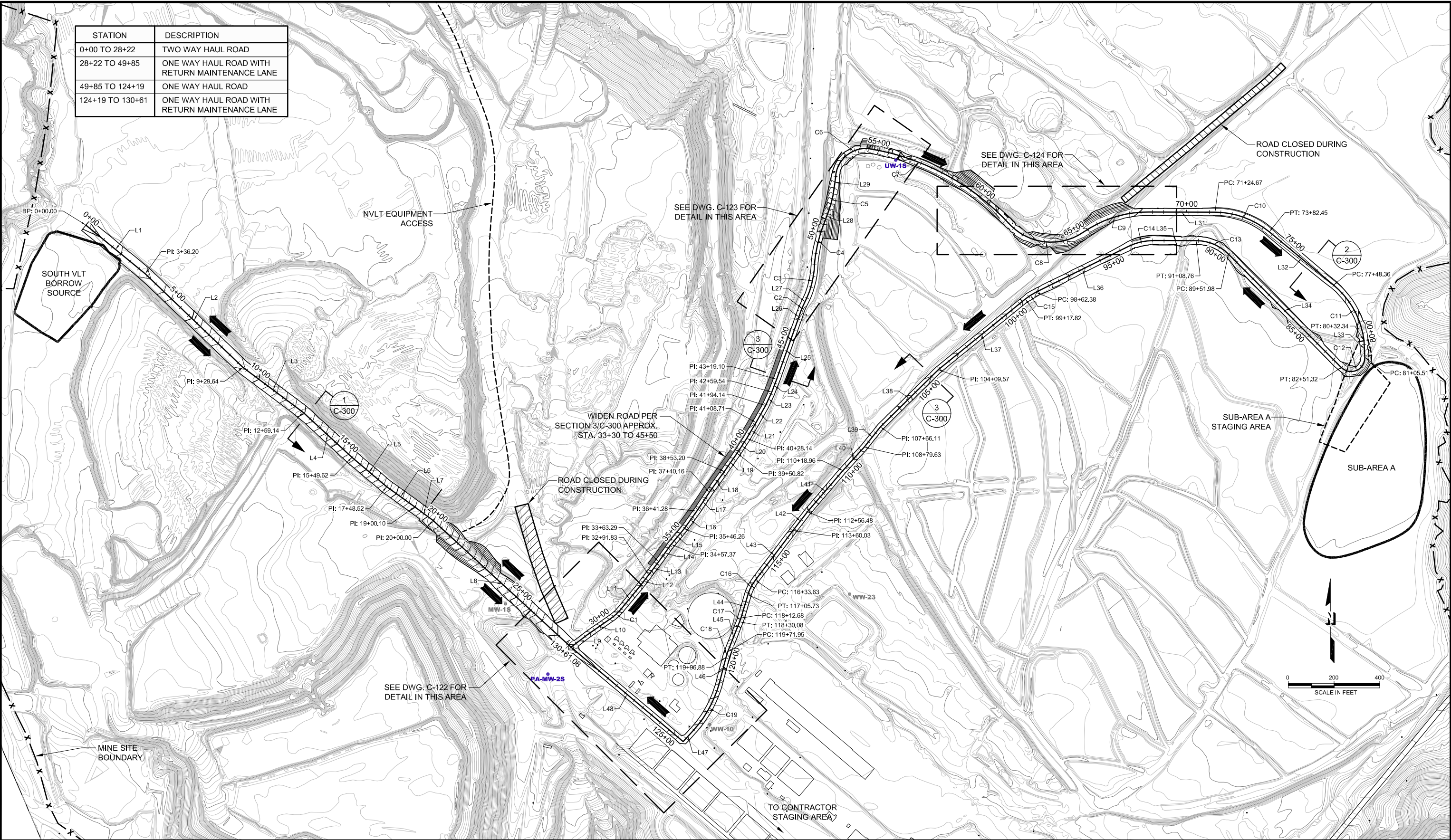
TITLE

**CIVIL
ALIGNMENT 1 - SHEET 2 - PLAN AND PROFILE
2-WAY ROAD FROM NORTH VLT BORROW SOURCE
TO THUMB POND (NVLT)**

SCALE AS SHOWN	LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)	REVISION
DRAWING NUMBER	SHEET NUMBER	
138555-C-111	16 OF 27	

Path: P:\Arco-Yerrington\Evaporation Pond-Sulfide Tailings\136742 - Year 2009 Files\CAD\C3D\Thumb Pond-Sub-Area A\100% Design\2-Sheets\C-C
Filename: 136555-C-120-C3D
Plot date: Jun 16, 2010 08:42:42am
CAD User: rhunt

STATION	DESCRIPTION
0+00 TO 28+22	TWO WAY HAUL ROAD
28+22 TO 49+85	ONE WAY HAUL ROAD WITH RETURN MAINTENANCE LANE
49+85 TO 124+19	ONE WAY HAUL ROAD
124+19 TO 130+61	ONE WAY HAUL ROAD WITH RETURN MAINTENANCE LANE



NO.	DESCRIPTION	BY	CHK.	APPRVD	DATE

**FINAL DESIGN
FOR CONSTRUCTION**

ENGINEER

PREPARED BY:

Brown and Caldwell

3264 GONI ROAD, SUITE 153
CARSON CITY, NEVADA 89706
PHONE: (775) 883-4118

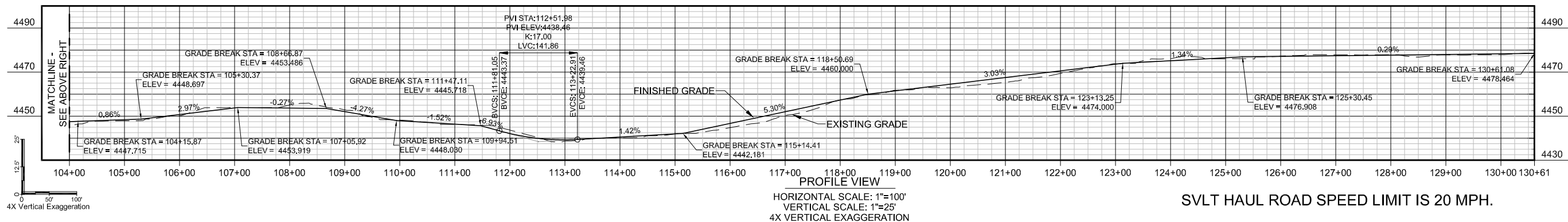
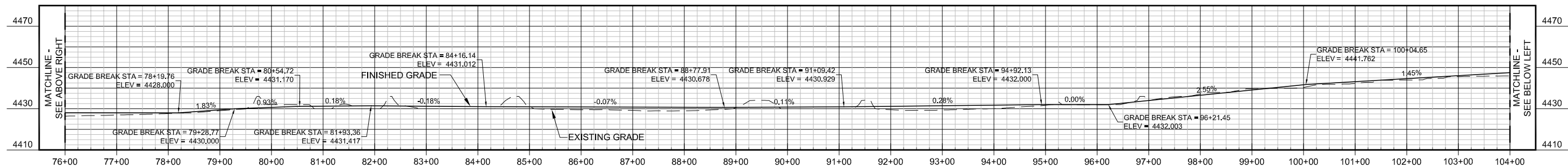
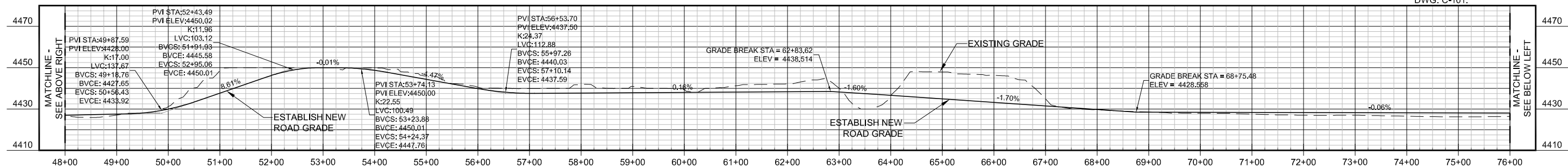
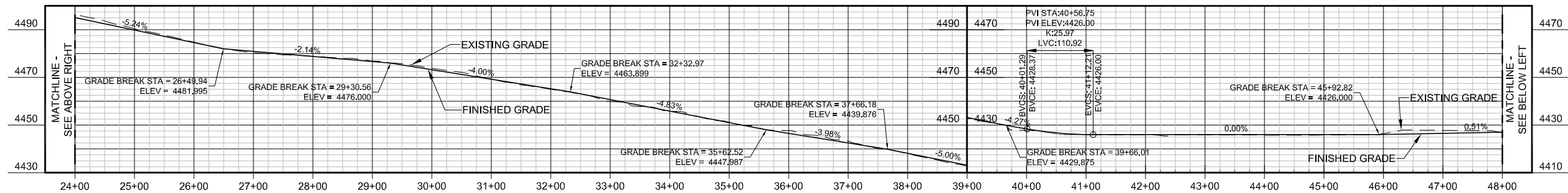
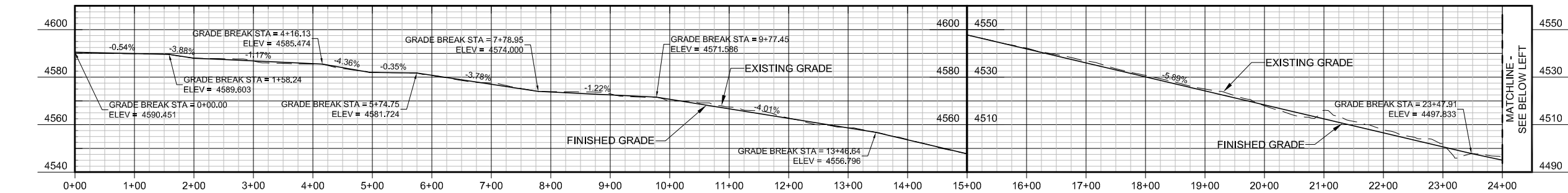
DESIGNED	RDH	6/10
DRAWN	RDH	6/10
CHECKED	RAM	6/10
APPROVED	RAM	6/10
APPROVED		

PREPARED FOR:

**Atlantic Richfield
Company**

REMOVAL ACTION IMPLEMENTATION PLAN
FOR THUMB POND AND SUB-AREA A

TITLE	
CIVIL	
ALIGNMENT 2 - SHEET 1 - OVERALL PLAN LOOP ROAD TO SUB-AREA A (SVLT)	
SCALE 1" = 200' LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)	
DRAWING NUMBER	SHEET NUMBER
136555-C-120	17 OF 27
REVISION	



NOTES:

1. UNLESS SPECIFIED, GENERAL MINE SITE SPEED LIMIT IS 25 MPH.
2. IMPLEMENT APPROVED TRAFFIC MANAGEMENT PLAN PRIOR TO ACCESSING SITE WORK AREAS.
3. DUST MITIGATION TO BE IMPLEMENTED DURING ALL PROJECT WORK.
4. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF SIGNIFICANT DIFFERENCES IN PLAN PRIOR TO EXECUTING WORK.
5. CONTRACTOR TO LIMIT EQUIPMENT RUTTING IN SOFT SEDIMENTS TO LESS THAN 1-INCH. RUTTING GREATER THAN 1-INCH REQUIRES SOIL OR GEOGRID STABILIZATION TO MITIGATE RUTTING CAUSED BY PROPOSED CONSTRUCTION EQUIPMENT.
6. ALL HAUL ROADS TO BE IN COMPLIANCE WITH MSHA 30 CFR 56.9300.
7. EXCAVATIONS SHALL BE IN COMPLIANCE WITH ACCEPTED HSSE PLAN AND OSHA 29 CFR 1926 SUBPART P.
8. SEE DWG. C-101 FOR LINE (L) AND CURVE (C) DATA TABLES.
9. CURVE EMBANKMENT AND WIDENING REQUIRED FOR CURVES WITH RADIUS <160 FEET, SEE DWG. C-101.

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SVLT HAUL ROAD SPEED LIMIT IS 20 MPH.

[illegible]

FINAL DESIGN FOR CONSTRUCTION

ENGINEER

PREPARED BY:

Brown AND Caldwell

3264 GONI ROAD, SUITE 153
CARSON CITY, NEVADA 89706
PHONE: (775) 883-4118

DESIGNED	RDH	6/10
DRAWN	RDH	6/10
CHECKED	RAM	6/10
APPROVED	RAM	6/10
APPROVED		
APPROVED		

PREPARED FOR:

Atlantic Richfield Company

REMOVAL ACTION IMPLEMENTATION PLAN FOR THUMB POND AND SUB-AREA A

TITLE

CIVIL

ALIGNMENT 2 - SHEET 2 - OVERALL PROFILE
LOOP ROAD TO SUB-AREA A (SVLT)

SCALE AS SHOWN

LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)

DRAWING NUMBER

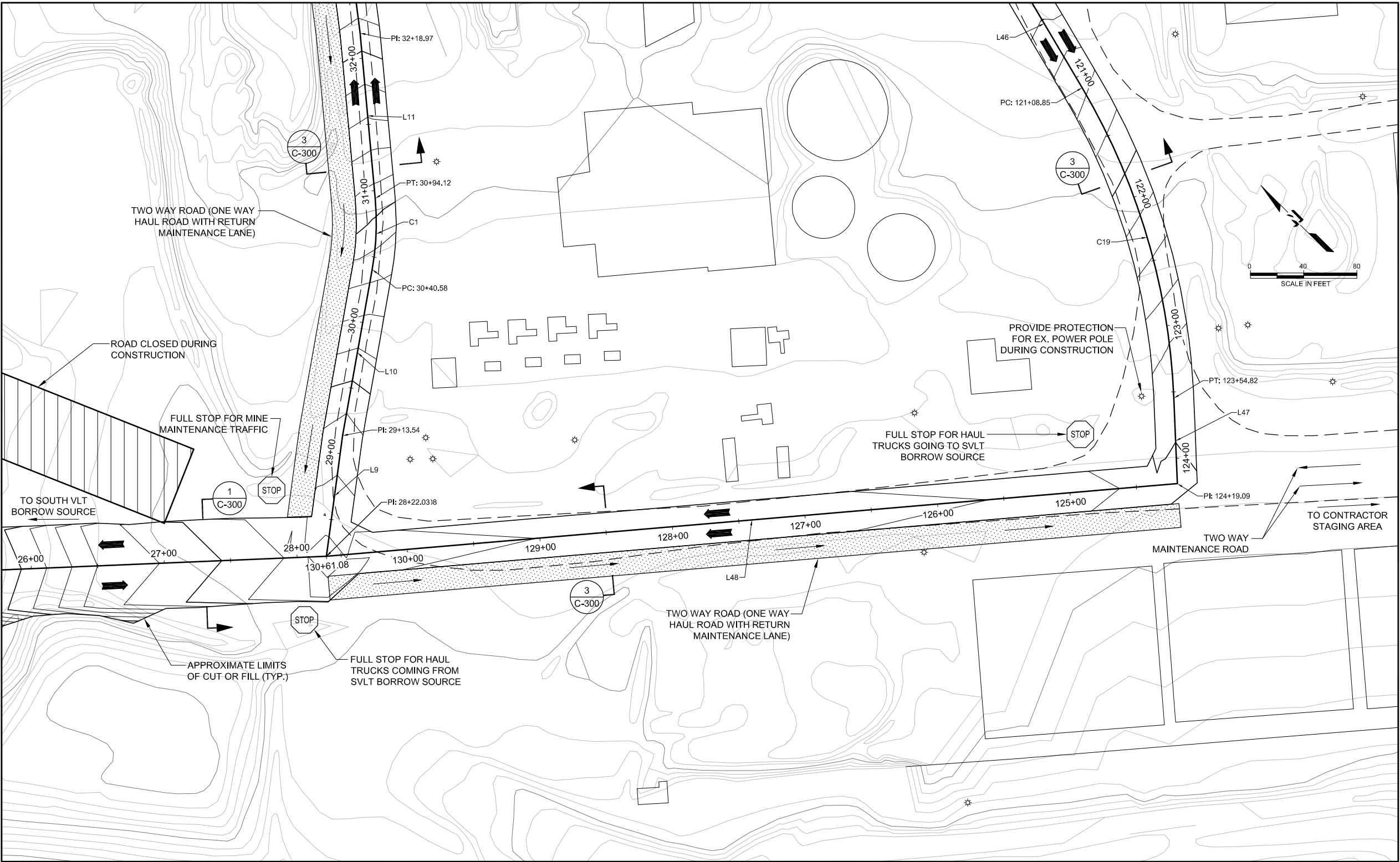
SHEET NUMBER

138555-C-121

18 OF 27



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Filename: 138555-C-122-CSD
Plot date: Jun 16, 2010-08:51:13am
CAD User: rhunt



PLAN VIEW
SCALE: 1"=40'

SVLT HAUL ROAD SPEED LIMIT IS 20 MPH.

- NOTES:
1. UNLESS SPECIFIED, GENERAL MINE SITE SPEED LIMIT IS 25 MPH.
 2. IMPLEMENT APPROVED TRAFFIC MANAGEMENT PLAN PRIOR TO ACCESSING SITE WORK AREAS.
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 9. CURVE EMBANKMENT AND WIDENING REQUIRED FOR CURVES WITH RADIUS <160 FEET, SEE DWG. C-101.

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NO.	DESCRIPTION	BY	CHK.	APPRD	DATE

FINAL DESIGN
FOR CONSTRUCTION

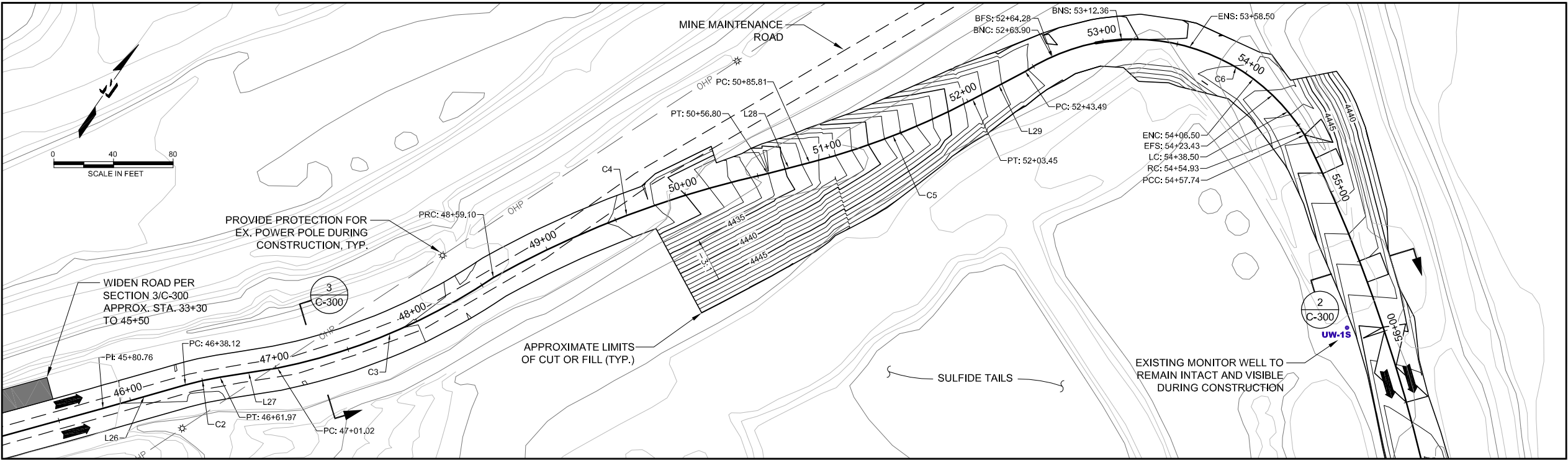
ENGINEER

PREPARED BY: Brown and Caldwell 3264 GONI ROAD, SUITE 153 CARSON CITY, NEVADA 89706 PHONE: (775) 883-4118		
DESIGNED	RDH	6/10
DRAWN	RDH	6/10
CHECKED	RAM	6/10
APPROVED	RAM	6/10
APPROVED		

PREPARED FOR: Atlantic Richfield Company
REMOVAL ACTION IMPLEMENTATION PLAN FOR THUMB POND AND SUB-AREA A

TITLE CIVIL ALIGNMENT 2 - SHEET 3 - DETAILED PLAN LOOP ROAD TO SUB-AREA A (SVLT)	
SCALE AS SHOWN DRAWING NUMBER 138555-C-122	REVISION SHEET NUMBER 19 OF 27

Path: P:\Arco-Yerrington\Evaporation Pond-Sulfide Tailings\136742 - Year 2009 Files\CAD\C3D\Thumb Pond_Sub-Area A\100% Design\2-Sheets\C-C
Filename: 138555-C-123-C3D
Plot date: Jun 16, 2010-08:55:47am
CAD User: rhunt

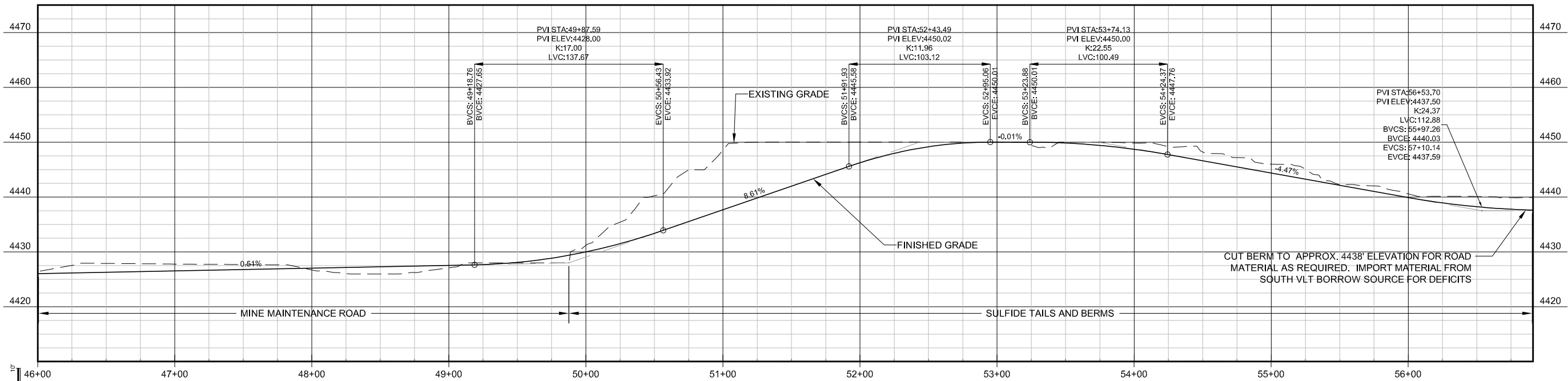


PLAN VIEW
SCALE: 1"=40'

SVLT HAUL ROAD SPEED LIMIT IS 20 MPH.

NOTES:

1. UNLESS SPECIFIED, GENERAL MINE SITE SPEED LIMIT IS 25 MPH.
2. IMPLEMENT APPROVED TRAFFIC MANAGEMENT PLAN PRIOR TO ACCESSING SITE WORK AREAS.
3. DUST MITIGATION TO BE IMPLEMENTED DURING ALL PROJECT WORK.
4. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF SIGNIFICANT DIFFERENCES IN PLAN PRIOR TO EXECUTING WORK.
5. CONTRACTOR TO LIMIT EQUIPMENT RUTTING IN SOFT SEDIMENTS TO LESS THAN 1-INCH. RUTTING GREATER THAN 1-INCH REQUIRES SOIL OR GEOGRID STABILIZATION TO MITIGATE RUTTING CAUSED BY PROPOSED CONSTRUCTION EQUIPMENT.
6. ALL HAUL ROADS TO BE IN COMPLIANCE WITH MSHA 30 CFR 56.9300.
7. EXCAVATIONS SHALL BE IN COMPLIANCE WITH ACCEPTED HSSE PLAN AND OSHA 29 CFR 1926 SUBPART P.
8. SEE DWG. C-101 FOR LINE (L) AND CURVE (C) DATA TABLES.
9. CURVE EMBANKMENT AND WIDENING REQUIRED FOR CURVES WITH RADIUS <160 FEET, SEE DWG. C-101.



PROFILE VIEW
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'
4X VERTICAL EXAGGERATION

Call
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UNDERGROUND SERVICE (USA)

NO.	DESCRIPTION	BY	CHK.	APPRVD	DATE

FINAL DESIGN
FOR CONSTRUCTION

ENGINEER

PREPARED BY:

Brown and Caldwell

3264 GONI ROAD, SUITE 153
CARSON CITY, NEVADA 89706
PHONE: (775) 883-4118

DESIGNED	RDH	6/10
DRAWN	RDH	6/10
CHECKED	RAM	6/10
APPROVED	RAM	6/10
APPROVED		
APPROVED		

PREPARED FOR:

**Atlantic Richfield
Company**

REMOVAL ACTION IMPLEMENTATION PLAN
FOR THUMB POND AND SUB-AREA A

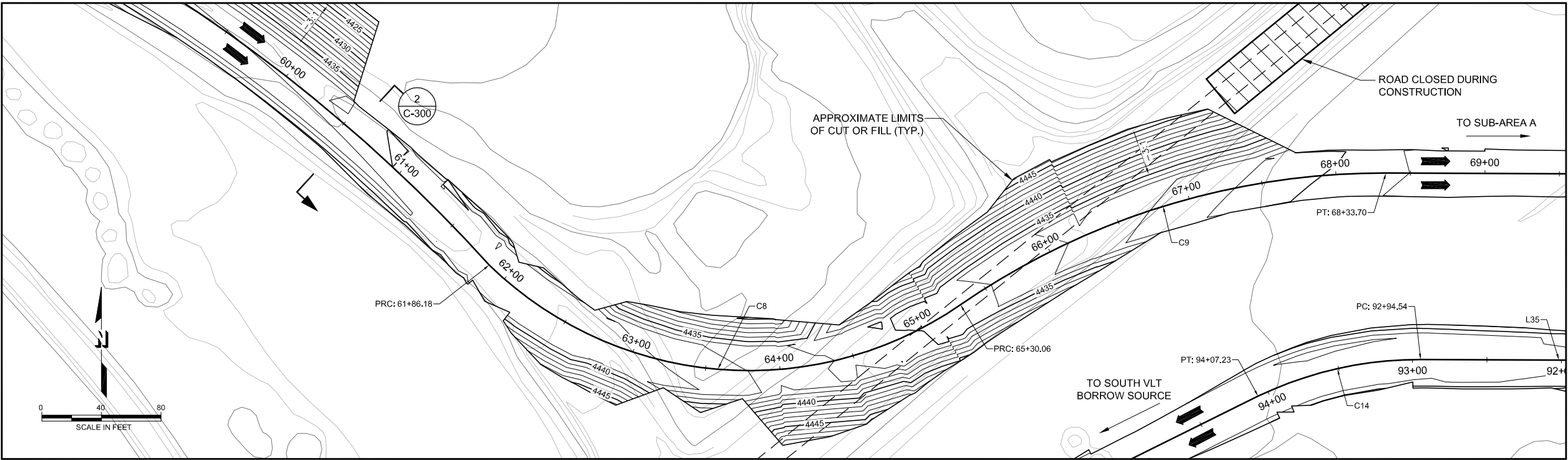
TITLE

CIVIL

**ALIGNMENT 2 - SHEET 4 - DETAILED PLAN AND PROFILE
LOOP ROAD TO SUB-AREA A (SVLT)**

SCALE AS SHOWN	LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)	REVISION
DRAWING NUMBER	SHEET NUMBER	
138555-C-123	20 OF 27	

Path: P:\Arco-Yerrington\Evaporation Pond-Sulfide Tailings\136742 - Year 2009 Files\CAD\C3D\Thumb Pond_Sub-Area A\100% Design\2-Sheets\C-C
Filename: 138555-C-124-C3D Plot date: Jun 16, 2010-09:08:25am CAD User: rhunt

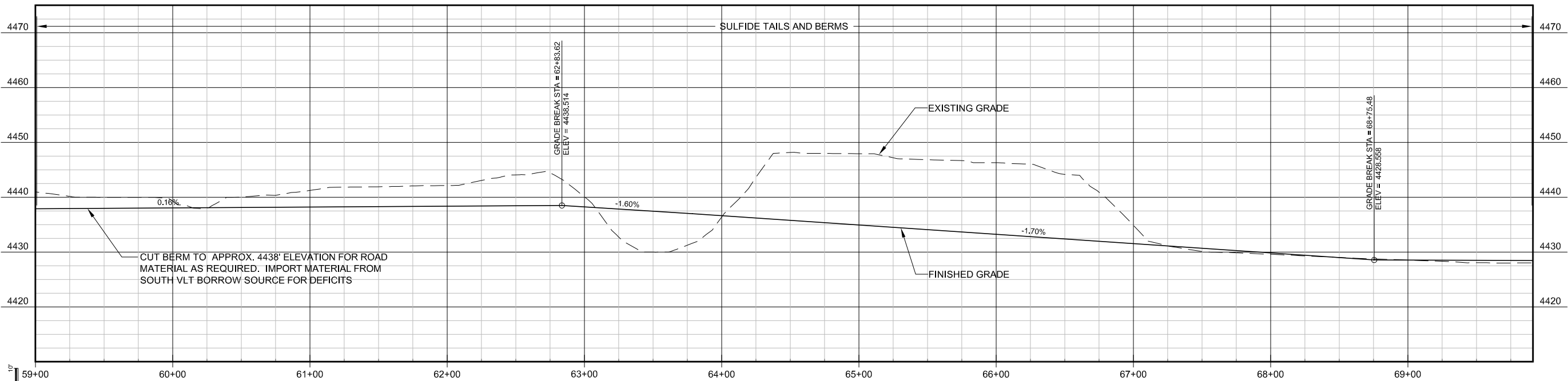


PLAN VIEW
SCALE: 1"=40'

SVLT HAUL ROAD SPEED LIMIT IS 20 MPH.

NOTES:

1. UNLESS SPECIFIED, GENERAL MINE SITE SPEED LIMIT IS 25 MPH.
2. IMPLEMENT APPROVED TRAFFIC MANAGEMENT PLAN PRIOR TO ACCESSING SITE WORK AREAS.
3. DUST MITIGATION TO BE IMPLEMENTED DURING ALL PROJECT WORK.
4. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF SIGNIFICANT DIFFERENCES IN PLAN PRIOR TO EXECUTING WORK.
5. CONTRACTOR TO LIMIT EQUIPMENT RUTTING IN SOFT SEDIMENTS TO LESS THAN 1-INCH. RUTTING GREATER THAN 1-INCH REQUIRES SOIL OR GEOGRID STABILIZATION TO MITIGATE RUTTING CAUSED BY PROPOSED CONSTRUCTION EQUIPMENT.
6. ALL HAUL ROADS TO BE IN COMPLIANCE WITH MSHA 30 CFR 56.9300.
7. EXCAVATIONS SHALL BE IN COMPLIANCE WITH ACCEPTED HSSE PLAN AND OSHA 29 CFR 1926 SUBPART P.
8. SEE DWG. C-101 FOR LINE (L) AND CURVE (C) DATA TABLES.
9. CURVE EMBANKMENT AND WIDENING REQUIRED FOR CURVES WITH RADIUS <160 FEET, SEE DWG. C-101.



PROFILE VIEW
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'
4X VERTICAL EXAGGERATION

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UNDERGROUND SERVICE (USA)

NO.	DESCRIPTION	BY	CHK.	APPRVD	DATE

FINAL DESIGN
FOR CONSTRUCTION

ENGINEER

PREPARED BY:

Brown and Caldwell

3264 GONI ROAD, SUITE 153
CARSON CITY, NEVADA 89706
PHONE: (775) 883-4118

DESIGNED	RDH	6/10
DRAWN	RDH	6/10
CHECKED	RAM	6/10
APPROVED	RAM	6/10
APPROVED		

PREPARED FOR:

**Atlantic Richfield
Company**

REMOVAL ACTION IMPLEMENTATION PLAN
FOR THUMB POND AND SUB-AREA A

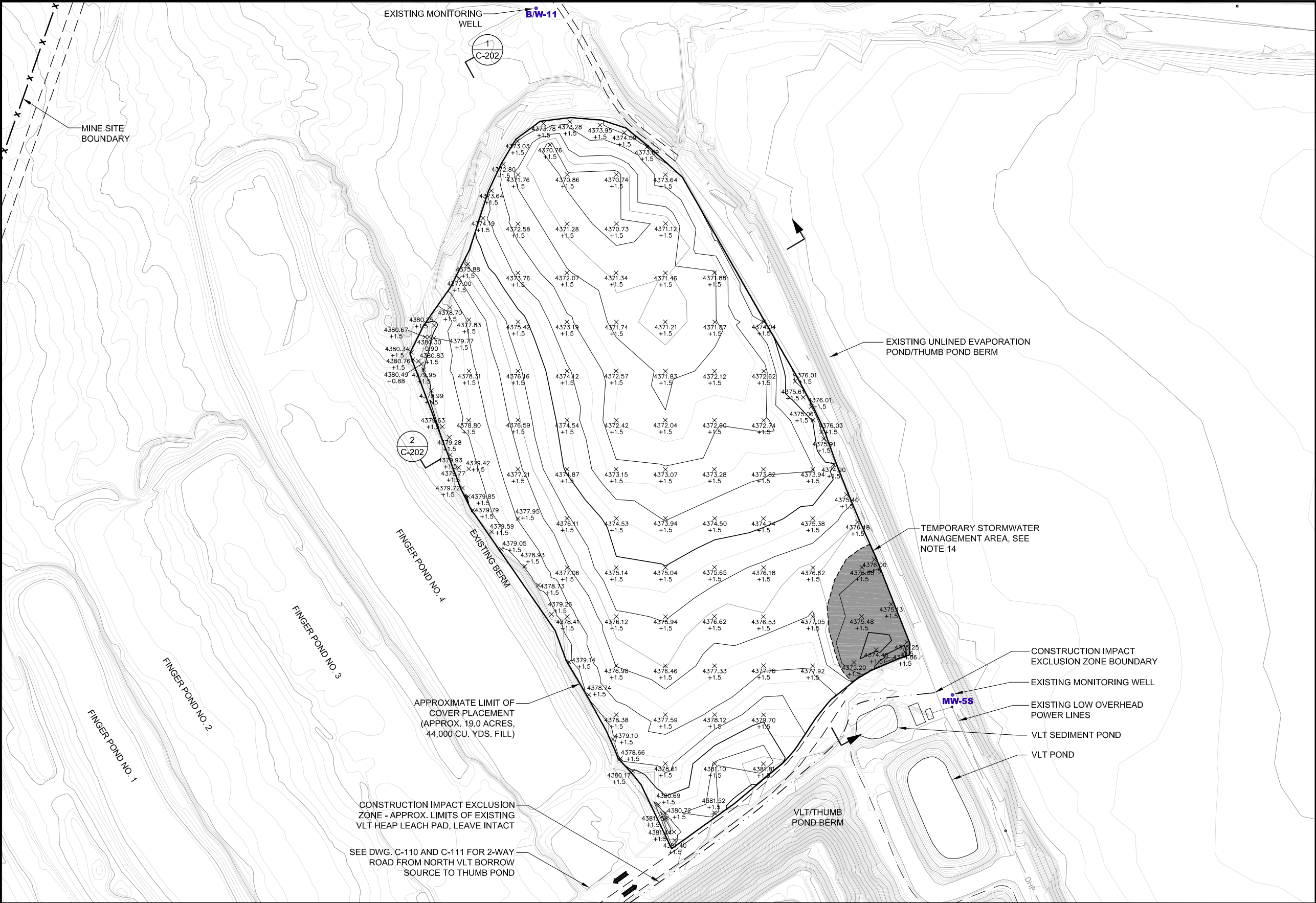
TITLE

CIVIL

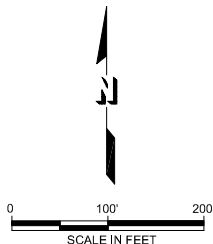
**ALIGNMENT 2 - SHEET 5 - DETAILED PLAN AND PROFILE
LOOP ROAD TO SUB-AREA A (SVLT)**

SCALE AS SHOWN	LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)	REVISION
DRAWING NUMBER	SHEET NUMBER	
138555-C-124	21 OF 27	

Path: P:\Arco-Yerrington\Evaporation Pond-Sulfide Tailings\136742 - Year 2009 Files\CAD\C3D\Thumb Pond-Sub-Area A\100% Design\2-Sheets\C-C
Filename: 136555-C-C-201-C3D
Plot date: Jun 08, 2010-02:43:51pm
CAD User: rhunt



- NOTES:
1. MINE SITE SPEED LIMIT 25 MPH.
 2. IMPLEMENT APPROVED TRAFFIC MANAGEMENT. PLAN PRIOR TO ACCESSING SITE WORK AREAS.
 3. DUST MITIGATION TO BE IMPLEMENTED DURING ALL PROJECT WORK.
 4. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF SIGNIFICANT DIFFERENCES IN PLAN IN WRITING PRIOR TO EXECUTING WORK.
 5. CONTRACTOR TO LIMIT EQUIPMENT RUTTING IN SOFT SEDIMENTS TO LESS THAN 1-INCH. RUTTING GREATER THAN 1-INCH REQUIRES SOIL OR GEOGRID STABILIZATION TO MITIGATE RUTTING OF PROPOSED CONSTRUCTION EQUIPMENT.
 6. ALL HAUL ROADS TO BE IN COMPLIANCE WITH MSHA 30 CFR 56.9300.
 7. EXCAVATIONS SHALL BE IN COMPLIANCE WITH ACCEPTED HSSE PLAN AND OSHA 29 CFR 1926 SUBPART P.
 8. DESIGN FUNCTION: DUST MITIGATION COVER.
 9. ELEVATIONS ARE APPROXIMATELY 18-INCHES AVERAGE ABOVE BASE SURVEY AS SHOWN ON C-011.
 10. COVER TO BE PLACED AT MINIMUM 85% STANDARD PROCTOR TO ELEVATION SPECIFIED. VERIFY BY SURVEY ONLY.
 11. SECTION LINES ARE APPROXIMATE, COVER THICKNESS TO BE DETERMINED PER PLAN SPECIFICATIONS DESCRIBED IN NOTES 8 AND 9.
 12. FILL AREA IS APPROXIMATELY 19 ACRES.
 13. CONTOURS REFLECT POINT ELEVATION DATA.
 14. ADDITIONAL TEMPORARY STORMWATER MANAGEMENT AREAS MAY BE CONSTRUCTED TO FACILITATE SCHEDULE WITH APPROVAL OF ENGINEER. CONTRACTOR RESPONSIBLE FOR REMOVING OR INCORPORATING BERM CONTROLS INTO COVER MATERIALS PER SPECIFICATION AT COMPLETION OF FILL PLACEMENT.



NO.	DESCRIPTION	BY	CHK.	APPRVD	DATE

FINAL DESIGN
FOR CONSTRUCTION

ENGINEER

PREPARED BY:
Brown and Caldwell
3264 GONI ROAD, SUITE 153
CARSON CITY, NEVADA 89706
PHONE: (775) 883-4118

DESIGNED	RDH	6/10
DRAWN	RDH	6/10
CHECKED	RAM	6/10
APPROVED	RAM	6/10
APPROVED		

PREPARED FOR:
Atlantic Richfield Company

REMOVAL ACTION IMPLEMENTATION PLAN
FOR THUMB POND AND SUB-AREA A

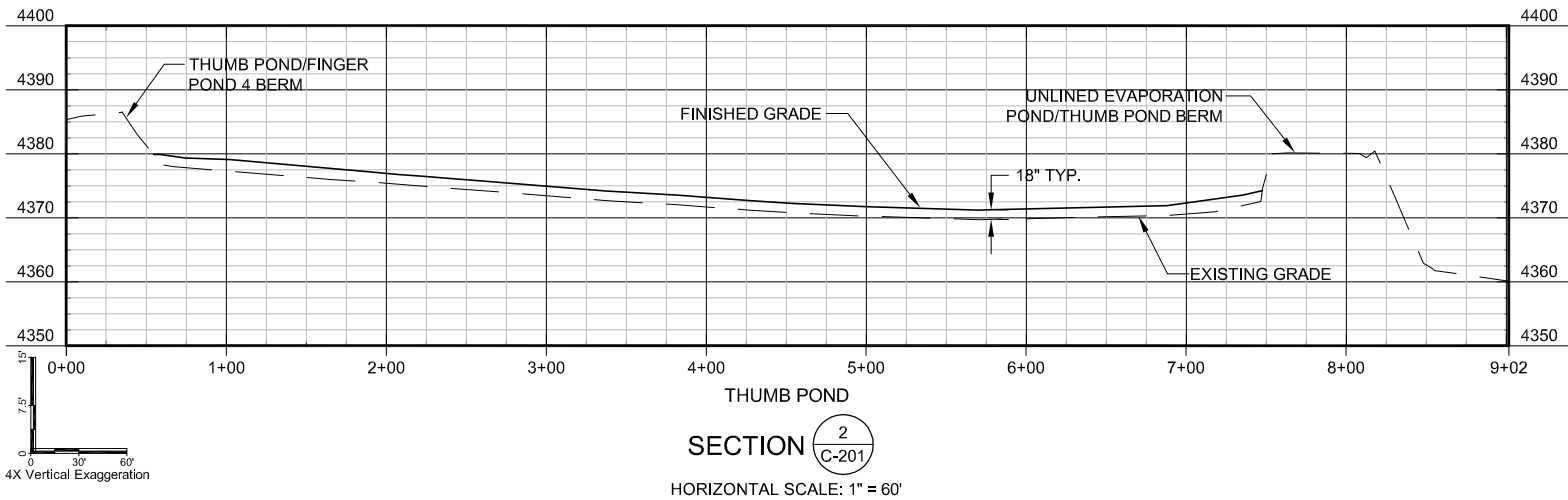
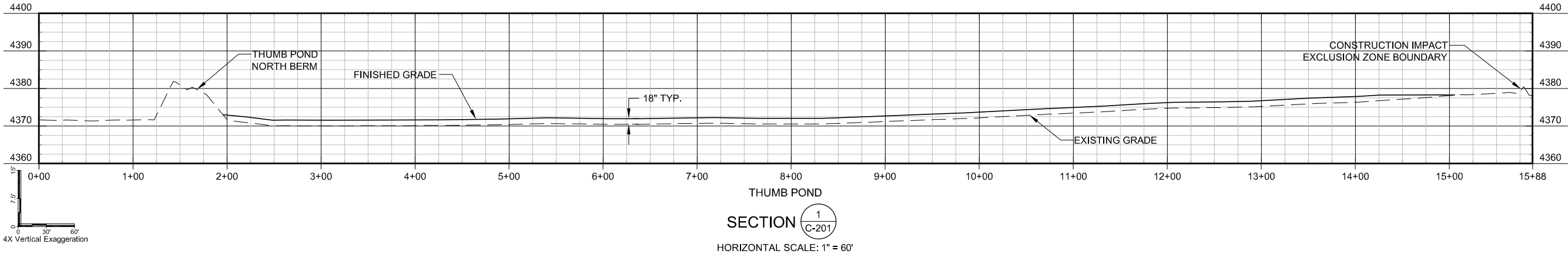
CIVIL
THUMB POND
INTERIM COVER BUILD OUT

SCALE 1" = 100'
DRAWING NUMBER
136742-C-201

LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)
SHEET NUMBER
22 OF 27

REVISION

Path: P:\Arco-Yerrington\Evaporation Pond-Sulfide Tailings\136742 - Year 2009 Files\CAD\CAD\C3D\Thumb Pond_Sub-Area A\100% Design\2-Sheets\C-C CAD User: rhunt Plot date: Jun 08, 2010-03:15:19pm



NO.	DESCRIPTION	BY	CHK.	APPRVD	DATE

FINAL DESIGN
FOR CONSTRUCTION

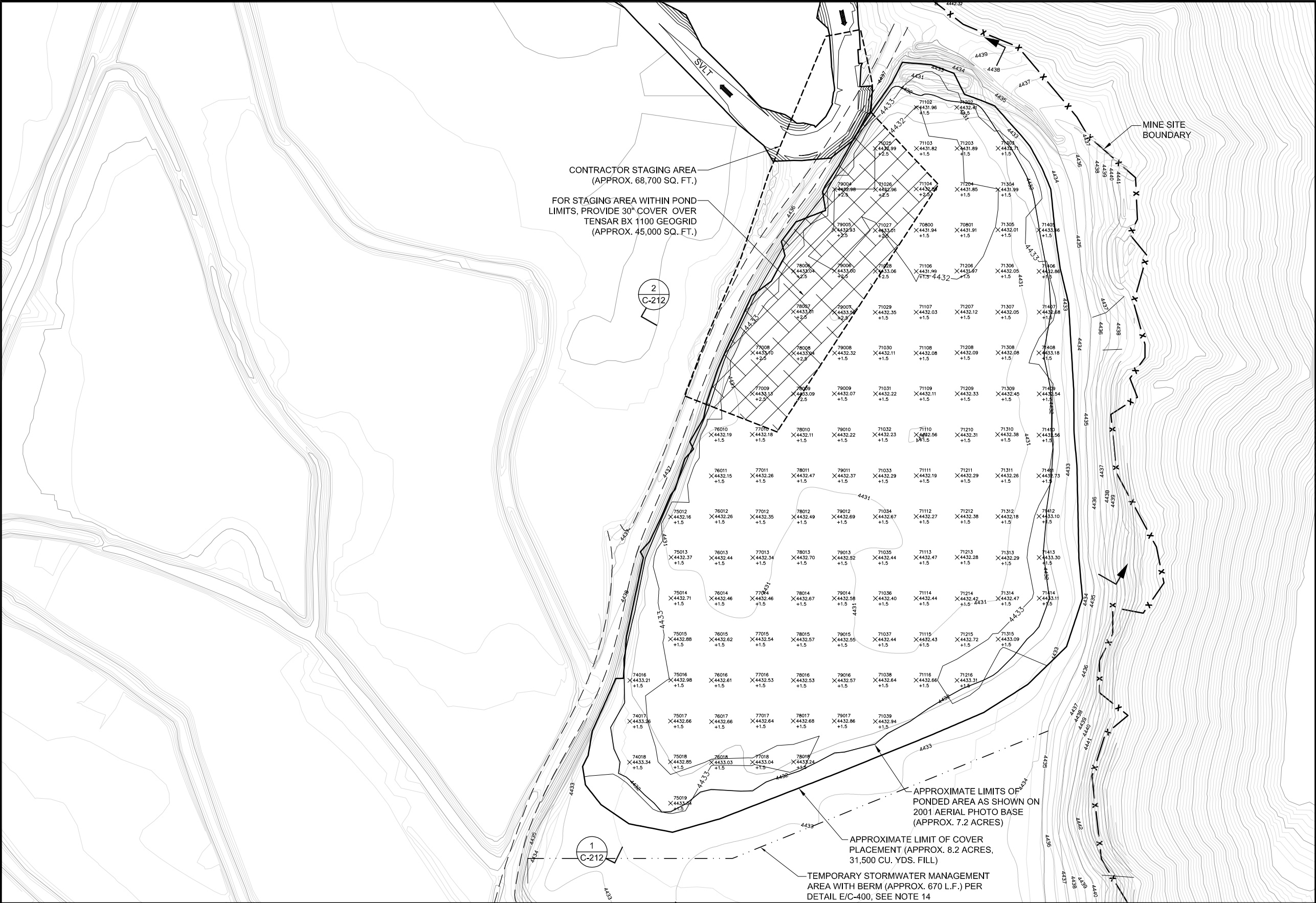
ENGINEER

PREPARED BY:		
Brown AND Caldwell		
3264 GONI ROAD, SUITE 153 CARSON CITY, NEVADA 89706 PHONE: (775) 883-4118		
DESIGNED	RDH	6/10
DRAWN	RDH	6/10
CHECKED	RAM	6/10
APPROVED	RAM	6/10
APPROVED		
APPROVED		

PREPARED FOR:	
Atlantic Richfield Company	
REMOVAL ACTION IMPLEMENTATION PLAN FOR THUMB POND AND SUB-AREA A	

TITLE		
CIVIL		
THUMB POND INTERIM COVER BUILD OUT SECTIONS		
SCALE AS SHOWN	LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)	REVISION
DRAWING NUMBER	SHEET NUMBER	
136742-C-202	23 OF 27	

Path: P:\Arco-Yerrington\Evaporation Pond-Sulfide Tailings\136742 - Year 2009 Files\CAD\CSD\Thumb Pond_Sub-Area A\100% Design\2-Sheets\C-C
Filename: 136555-C-211-CSD
Plot date: Jun 16, 2010-09:21:56am
CAD User: rhunt



- NOTES:
1. MINE SITE SPEED LIMIT 25 MPH.
 2. IMPLEMENT APPROVED TRAFFIC MANAGEMENT. PLAN PRIOR TO ACCESSING SITE WORK AREAS.
 3. DUST MITIGATION TO BE IMPLEMENTED DURING ALL PROJECT WORK.
 4. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF SIGNIFICANT DIFFERENCES IN PLAN IN WRITING PRIOR TO EXECUTING WORK.
 5. CONTRACTOR TO LIMIT EQUIPMENT RUTTING IN SOFT SEDIMENTS TO LESS THAN 1-INCH. RUTTING GREATER THAN 1-INCH REQUIRES SOIL OR GEOGRID STABILIZATION TO MITIGATE RUTTING OF PROPOSED CONSTRUCTION EQUIPMENT.
 6. ALL HAUL ROADS TO BE IN COMPLIANCE WITH MSHA 30 CFR 56.9300.
 7. EXCAVATIONS SHALL BE IN COMPLIANCE WITH ACCEPTED HSSE PLAN AND OSHA 29 CFR 1926 SUBPART P.
 8. DESIGN FUNCTION: DUST MITIGATION COVER.
 9. ELEVATIONS ARE APPROXIMATELY 18-INCHES AVERAGE ABOVE BASE SURVEY AS SHOWN ON C-012 EXCEPT FOR REINFORCED AREA SHOWN.
 10. COVER TO BE PLACED AT MINIMUM 85% STANDARD PROCTOR TO ELEVATION SPECIFIED. VERIFY BY SURVEY ONLY. COMPACTION SPECIFICATION APPLICABLE TO TOP 3 TO 6 INCHES OF COVER ONLY.
 11. SECTION LINES ARE APPROXIMATE, COVER THICKNESS TO BE DETERMINED PER PLAN SPECIFICATIONS DESCRIBED IN NOTES 8 AND 9.
 12. FILL AREA IS APPROXIMATELY 8 ACRES.
 13. CONTOURS REFLECT POINT ELEVATION DATA.
 14. ADDITIONAL TEMPORARY STORMWATER MANAGEMENT AREAS MAY BE CONSTRUCTED TO FACILITATE SCHEDULE WITH APPROVAL OF ENGINEER. CONTRACTOR RESPONSIBLE FOR REMOVING OR INCORPORATING BERM CONTROLS INTO COVER MATERIALS PER SPECIFICATION AT COMPLETION OF FILL PLACEMENT.

NO.	DESCRIPTION	BY	CHK.	APPRVD	DATE

FINAL DESIGN
FOR CONSTRUCTION

ENGINEER

PREPARED BY:
Brown and Caldwell
3264 GONI ROAD, SUITE 153
CARSON CITY, NEVADA 89706
PHONE: (775) 883-4118

DESIGNED	RDH	6/10
DRAWN	RDH	6/10
CHECKED	RAM	6/10
APPROVED	RAM	6/10
APPROVED		
APPROVED		

PREPARED FOR:
Atlantic Richfield Company

REMOVAL ACTION IMPLEMENTATION PLAN
FOR THUMB POND AND SUB-AREA A

CIVIL
SUB-AREA A
INTERIM COVER BUILD OUT

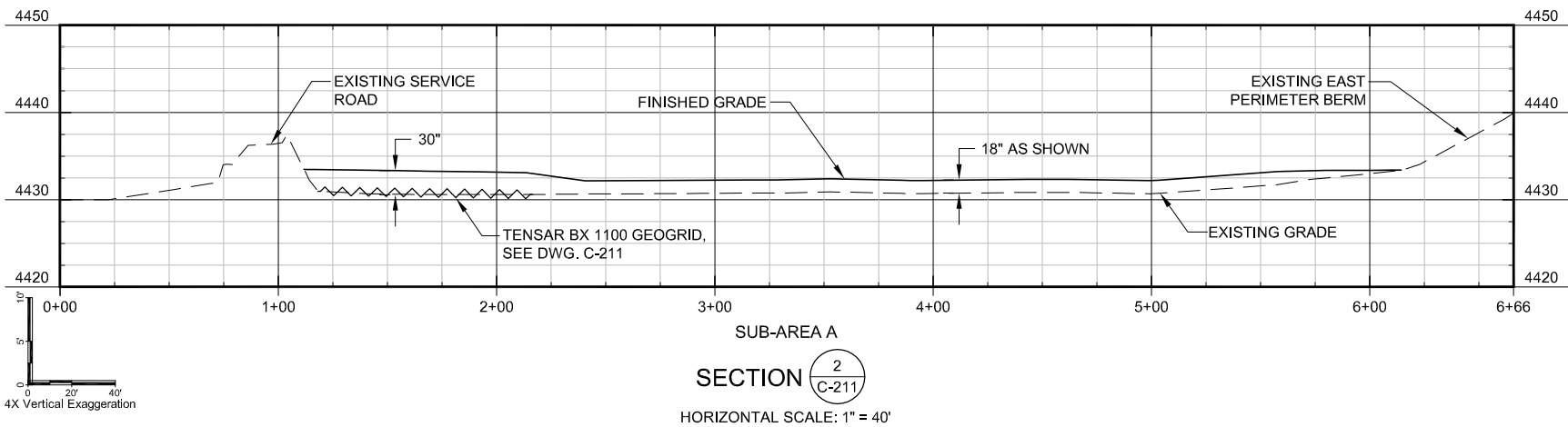
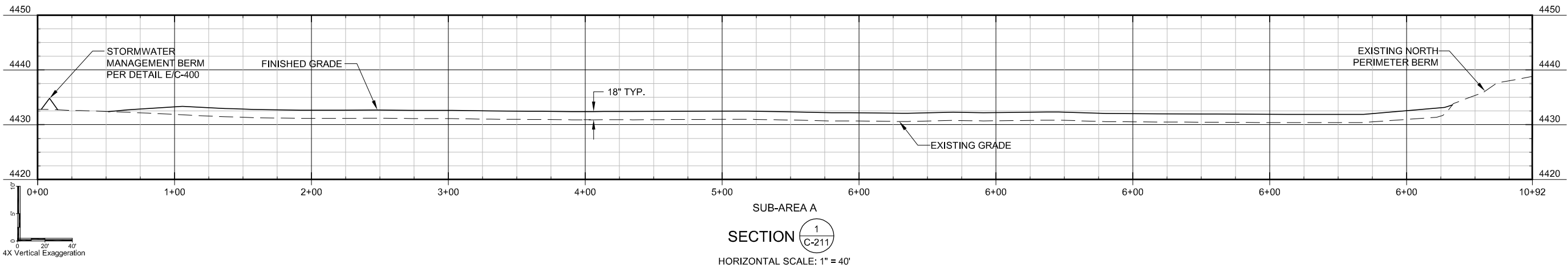
SCALE 1" = 60'
DRAWING NUMBER
136742-C-211

LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)

SHEET NUMBER
24 OF 27

REVISION

Path: F:\Arco-Yerrington\Evaporation Pond-Sulfide Tailings\136742 - Year 2009 Files\CAD\CAD\C3D\Thumb Pond_Sub-Area A\100% Design\2-Sheets\C-C File: 136555-C-212-C3D Plot date: Jun 08, 2010-02:58:37pm CAD User: rhunt



REVISIONS	NO.	DESCRIPTION	BY	CHK.	APPRD	DATE

FINAL DESIGN
FOR CONSTRUCTION

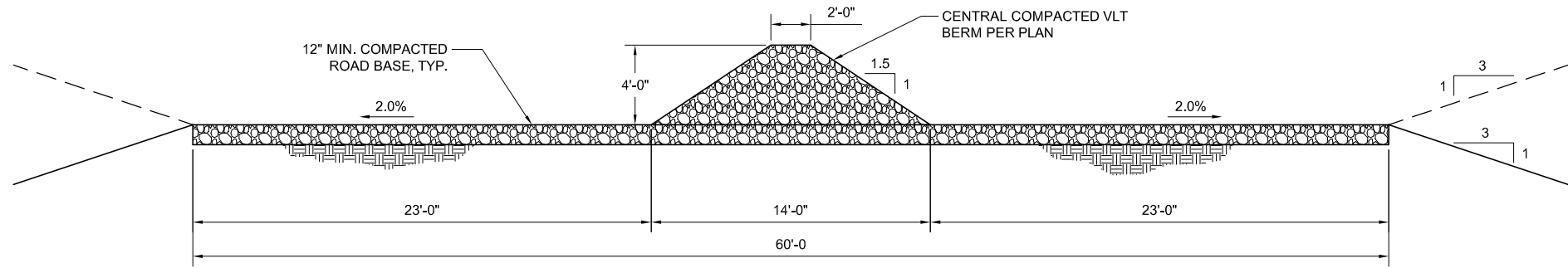
ENGINEER

PREPARED BY:		
Brown AND Caldwell		
3264 GONI ROAD, SUITE 153 CARSON CITY, NEVADA 89706 PHONE: (775) 883-4118		
DESIGNED	RDH	6/10
DRAWN	RDH	6/10
CHECKED	RAM	6/10
APPROVED	RAM	6/10
APPROVED		
APPROVED		

PREPARED FOR:	
Atlantic Richfield Company	
REMOVAL ACTION IMPLEMENTATION PLAN FOR THUMB POND AND SUB-AREA A	

TITLE		
CIVIL		
SUB-AREA A INTERIM COVER BUILD OUT SECTIONS		
SCALE AS SHOWN	LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)	REVISION
DRAWING NUMBER	SHEET NUMBER	
136742-C-212	25 OF 27	

Path: P:\Arco-Yerrington\Evaporation Pond-Sulfide Tailings\136742 - Year 2009 Files\CAD\C3D\Thumb Pond_Sub-Area A\100% Design\2-Sheets\C-C
File name: 138555-C-300
Plot date: Jun 16, 2010-07:02:58am
CAD User: rhunt



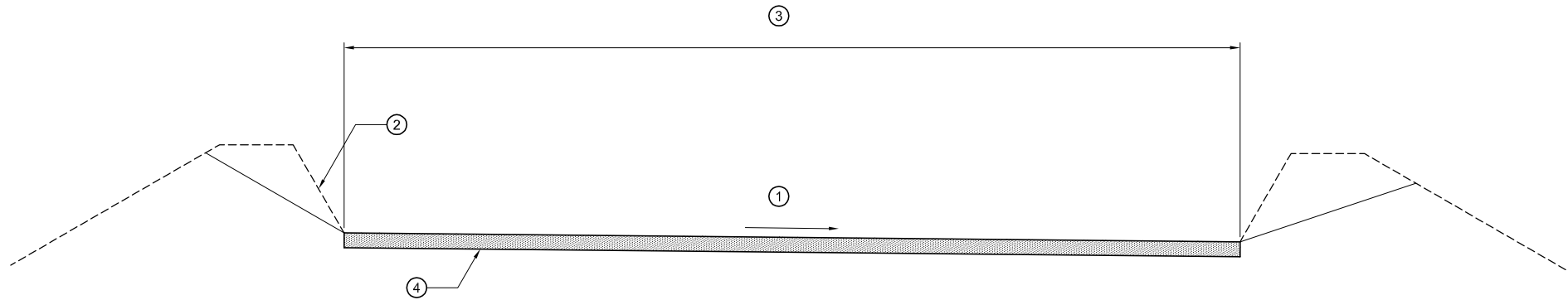
2-WAY HAUL ROAD

SECTION $\frac{1}{VAR}$

SCALE: 1/4" = 1'-0"

NOTES:

1. UTILIZE EXISTING ROAD COARSE GRAINED MATERIALS AS BASE MATERIAL. USE VLT MATERIAL AS REQUIRED FOR FILL COMPACTED IN 10 INCH LIFTS TO 90%, MODIFIED MDD WITHIN 2% OF OPTIMUM MOISTURE. PROVIDE MINIMUM 12 INCH VLT ROAD BASE OVER COMPACTED FINE GRAINED MATERIALS.



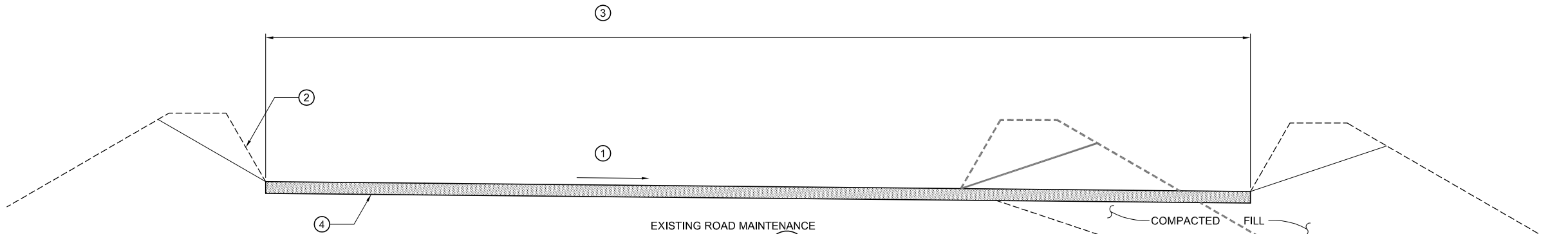
1-WAY HAUL ROAD

SECTION $\frac{2}{VAR}$

SCALE: 3/8" = 1'-0"

NOTES:

1. GRADE / MAINTAIN EXISTING ROAD GRADES TO MAINTAIN DRAINAGE. MAINTAIN EXISTING CROSS DRAINAGE GRADE. PERFORM DUST MITIGATION PER APPROVED PLAN.
2. PROVIDE BERMS AND SLOPES AS REQUIRED FOR EQUIPMENT UTILIZING ACCESS ROADS PER MSHA 30.CFR.56.9300.
3. EXISTING ROADWAY TRAVELWAYS SHALL BE GREATER THAN 30 FEET FOR ONE WAY TRAVELWAYS AND 60 FEET FOR TWO WAY TRAVELWAYS.
4. UTILIZE EXISTING ROAD COARSE GRAINED MATERIALS AS BASE MATERIAL. USE VLT MATERIAL AS REQUIRED FOR FILL COMPACTED IN 10 INCH LIFTS TO 90%, MODIFIED MDD WITHIN 2% OF OPTIMUM MOISTURE. PROVIDE MINIMUM 12 INCH VLT ROAD BASE OVER COMPACTED FINE GRAINED MATERIALS.
5. SECTION FOR HAUL ROAD ONLY, SEE COVER PLAN SHEET FOR THICKNESS REQUIREMENTS IN COVER AREA.



EXISTING ROAD MAINTENANCE

SECTION $\frac{3}{VAR}$

SCALE: 3/8" = 1'-0"

NOTES:

1. GRADE / MAINTAIN EXISTING ROAD GRADES TO MAINTAIN DRAINAGE. MAINTAIN EXISTING CROSS DRAINAGE GRADE. PERFORM DUST MITIGATION PER APPROVED PLAN.
2. MAINTAIN BERMS AND SLOPES AS REQUIRED FOR EQUIPMENT UTILIZING ACCESS ROADS PER MSHA 30.CFR.56.9300.
3. EXISTING ROADWAY TRAVELWAYS SHALL BE GREATER THAN 30 FEET FOR ONE WAY TRAVELWAYS AND 60 FEET FOR TWO WAY TRAVELWAYS. ONE WAY HAUL ROAD WITH RETURN MAINTENANCE LANE IS 48' (30' + 18') WIDE. WIDEN EXISTING ROAD AS SHOWN ON DWG C-120.
4. UTILIZE EXISTING ROAD MATERIALS AS BASE MATERIAL. USE VLT MATERIAL AS REQUIRED FOR FILL COMPACTED IN 10 INCH LIFTS TO 90%, MODIFIED MDD WITHIN 2% OF OPTIMUM MOISTURE.

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**FINAL DESIGN
FOR CONSTRUCTION**

ENGINEER

PREPARED BY:

Brown AND Caldwell

3264 GONI ROAD, SUITE 153
CARSON CITY, NEVADA 89706
PHONE: (775) 883-4118

DESIGNED	RDH	5/10
DRAWN	RDH	5/10
CHECKED	RAM	5/10
APPROVED	RAM	5/10
APPROVED		
APPROVED		

PREPARED FOR:

**Atlantic Richfield
Company**

REMOVAL ACTION IMPLEMENTATION PLAN
FOR THUMB POND AND SUB-AREA A

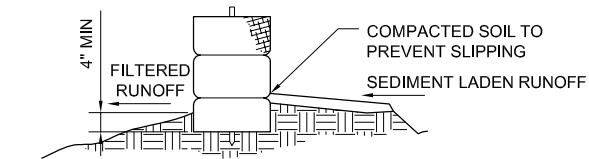
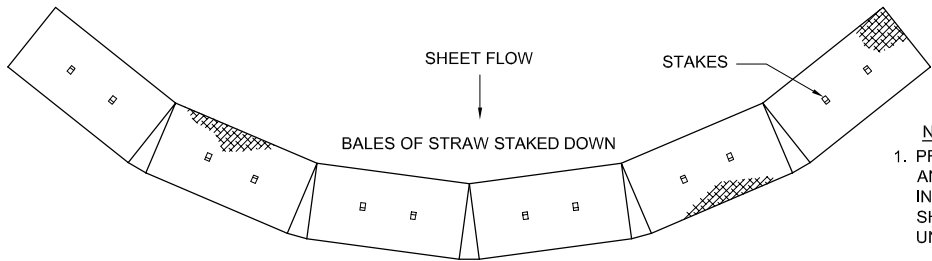
TITLE

CIVIL

TYPICAL SECTIONS

SCALE AS SHOWN	LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)	REVISION
DRAWING NUMBER	SHEET NUMBER	
138555-C-300	26 OF 27	

CAD User: rhunt
Plot date: Jun 16, 2010 - 07:04:08am
Filename: 138555-C-400
Path: P:\Arco-Yerrington\Evaporation Pond-Sulfide Tailings\136742 - Year 2009 Files\CAD\CSD\Thumb Pond-Sub-Area A\100% Design\2-Sheets\C-C

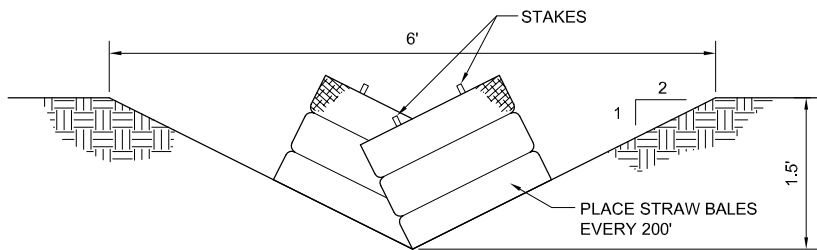


CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE

STRAW AND HAY BALE BARRIERS NO. 2

DETAIL A
VAR

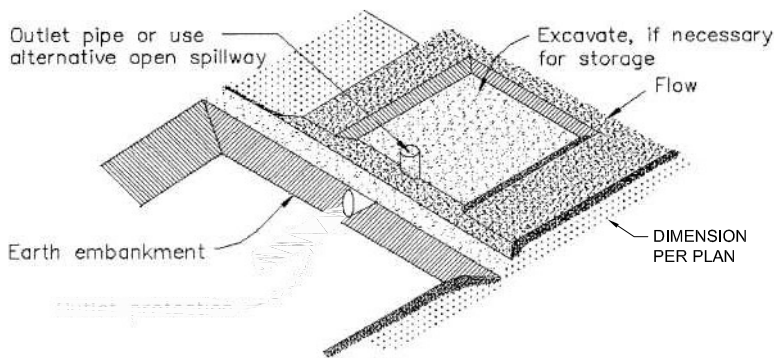
NO SCALE



STORMWATER DITCH WITH STRAW BALE BARRIERS

DETAIL C
VAR

NO SCALE



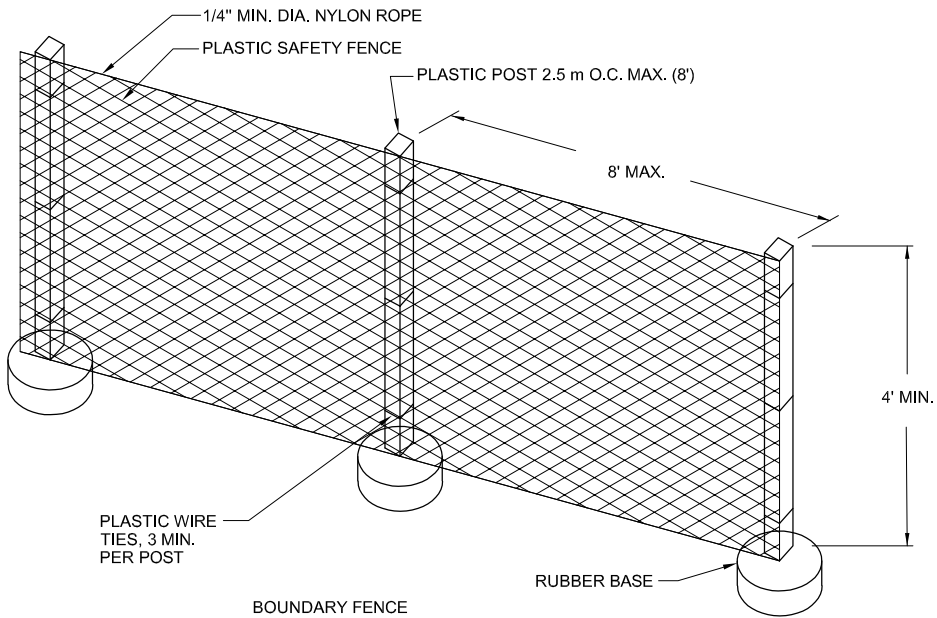
SEDIMENT TRAP

DETAIL D
VAR

NO SCALE

NOTES:

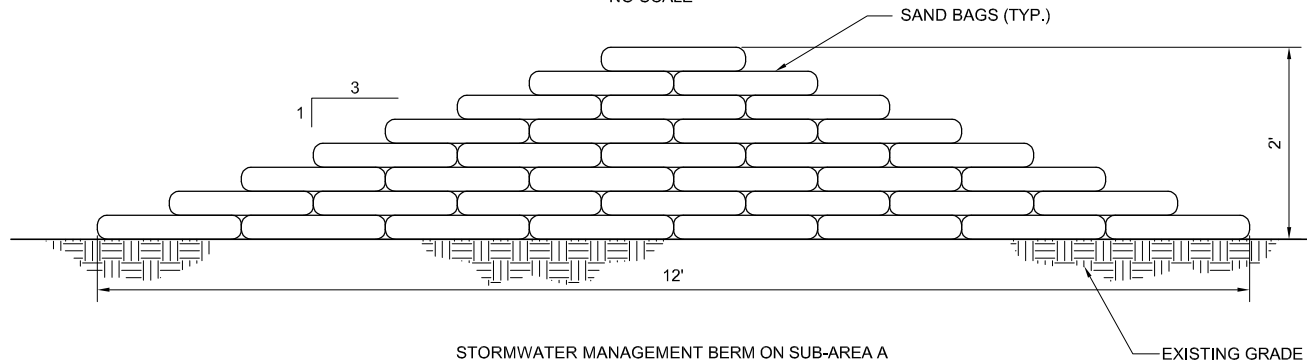
1. PRIOR TO EXCAVATION , THE CLEARING AND GRADING LIMITS SHALL BE STAKED IN THE FIELD. NATIVE GROUND COVER SHALL BE RETAINED AND LEFT UNDISTURBED AS MUCH AS POSSIBLE.
2. EROSION CONTROL FACILITIES MUST BE IN PLACE AND FUNCTIONING PRIOR TO CLEARING AND GRADING.
3. THE DETAILS ON THIS DRAWING ARE FOR REFERENCE USE. SOME OF THE FACILITIES DEPICTED MAY NOT BE NEEDED.
4. THE DETAILS ON THIS DRAWING SHALL APPLY WHERE THE REQUIREMENTS OF THE EROSION CONTROL PLAN NECESSITATE THE USE OF SUCH FACILITIES.
5. SEE ORANGE BOOK SPEC SECTION 200 FOR GRAVEL FILL TYPES.



BOUNDARY FENCE

DETAIL B
VAR

NO SCALE



STORMWATER MANAGEMENT BERM ON SUB-AREA A

DETAIL E
VAR

NO SCALE

BORROW AREA TEMPORARY EROSION SOIL CONTROL PLAN (TESCP) NOTES:

1. APPROVAL BY PROJECT MANAGER OF A TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN (TESCP) DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS CHANNEL, FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE TESCP PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE TESCP FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
3. THE BOUNDARIES OF THE CLEARING LIMITS IDENTIFIED ON THESE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGS SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
4. THE TESCP FACILITIES SHOWN ON THIS PLAN, SHALL BE IMPLEMENTED IF NECESSARY FOR SEDIMENT CONTROL. THEY MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
5. THE TESCP FACILITIES REFERENCED ON THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESCP FACILITIES SHALL BE MAINTAINED AND UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS.
6. THE TESCP FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
7. ANY AREA NEEDING TESCP MEASURE, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
8. THE TESCP FACILITIES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 48 HOURS FOLLOWING A STORM EVENT.
9. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO DOWNSTREAM SYSTEM.
10. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION OR DISPERSION SYSTEM, THE FACILITY SHALL NOT BE USED AS A TEMPORARY SETTLING BASIN. NO UNDERGROUND DETENTION TANKS OR VAULTS SHALL BE USED AS A TEMPORARY SETTLING BASIN.
11. IF NECESSARY FOR SEDIMENT CONTROL, THE CONTRACTOR SHALL DESIGN AND CONSTRUCT SEDIMENT TRAPS AS REQUIRED BY AND IN ACCORDANCE WITH THE PROJECT MANAGER'S SPECIFICATIONS.

NO.	DESCRIPTION	BY	CHK.	APPRVD	DATE

**FINAL DESIGN
FOR CONSTRUCTION**

ENGINEER

PREPARED BY:

Brown and Caldwell

3264 GONI ROAD, SUITE 153
CARSON CITY, NEVADA 89706
PHONE: (775) 883-4118

DESIGNED	RDH	5/10
DRAWN	RDH	5/10
CHECKED	RAM	5/10
APPROVED	RAM	5/10
APPROVED		
APPROVED		

PREPARED FOR:

**Atlantic Richfield
Company**

**REMOVAL ACTION IMPLEMENTATION PLAN
FOR THUMB POND AND SUB-AREA A**

TITLE

CIVIL

TYPICAL BMP's

SCALE AS SHOWN	LINE IS 4 INCHES AT FULL SIZE (IF NOT, SCALE ACCORDINGLY)	REVISION
DRAWING NUMBER	SHEET NUMBER	
138555-C-400	27 OF 27	